

# MICHIGAN STATE UNIVERSITY

## Organophosphate and Carbamate Insecticides

This sheet summarizes the medical monitoring for MSU employees who mix or spray organophosphate or carbamate insecticides. Please review the following criteria to determine the level of monitoring that corresponds with your exposure to organophosphate or carbamate insecticides.

### **Baseline blood test for a serum and red cell cholinesterase level:**

If you have or will mix or spray organophosphates or carbamate insecticides then you should have a baseline blood test that should be obtained when you have not worked with an organophosphate or carbamate insecticide for 3 or more months.

This baseline value only needs to be done once as long as the same laboratory is used. The Mayo Clinic laboratory is the reference lab doing the analysis regardless of where your blood is drawn so if you have had a baseline blood cholinesterase from 2005 or later, you do not need another baseline.



### **Periodic blood test:**

If you regularly mix or spray organophosphates or carbamate insecticides, then once per year, you should have a blood test within hours after using the insecticide as a check to see if your equipment and work practices are sufficiently protective. Also, please complete the medical questionnaire found online at:

<https://occhealth.msu.edu/files/attachment/121/original/OrganophosphateandCarbamateInsecticide.pdf>

After you have completed the questionnaire, please return it directly to the University Physician's Office because the questionnaire is a confidential medical record and is not to be shared with your supervisor. The address of the University Physician's Office is Room 123 Olin Health Center, East Lansing, MI 48824. You may also email the completed questionnaire to [occhealth@hc.msu.edu](mailto:occhealth@hc.msu.edu) or fax it to 517-355-0332.

### **Spill or Spray Incident:**

If you are mixing or spraying organophosphate or carbamate insecticides and your skin is splashed or you are sprayed, you should promptly remove the clothes that have been splashed and shower. The clothes should be washed separately from other clothes or discarded. After changing and showering, seek medical evaluation including a blood test for serum and red cell cholinesterase. Also, please complete the medical questionnaire found online at:

<https://occhealth.msu.edu/files/attachment/121/original/OrganophosphateandCarbamateInsecticide.pdf>

MSU Occupational Health  
463 E. Circle Dr. Rm. 123  
East Lansing, Michigan  
48824-1037  
Phone: 517.353-9101  
Fax: 517.355-0332

**Obtaining Your Blood Test:**

To arrange all blood tests, please call 517-353-9137. If you work off campus, arrangements will be made with a nearby lab.

**Attachments**

1. Medical Questionnaire
2. List of Organophosphates and Carbamate Insecticides  
(If you believe you are working with an organophosphate or carbamate not on this list, please contact EHS at 517-355-0153)