## Fact Sheet on Cholinesterase Testing for Monitoring Workers in the California Medical Supervision Program

**NEW!** Medical supervisor physicians should register with OEHHA in order to contract with an employer: <a href="https://oehha.ca.gov/pesticides/general-info/medical-supervisor-registration">https://oehha.ca.gov/pesticides/general-info/medical-supervisor-registration</a>

- 1. **SCREEN THE WORKER** on the initial visit to be sure he/she can work with cholinesterase inhibiting pesticides.
- 2. <u>USE A CERTIFIED LAB</u> and always put blood samples on ice or store at 4°C immediately after drawing. California Department of Public Health certified labs are listed at:

  <a href="https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/Pages/CDPH-Approved-Cholinesterase-Laboratories.aspx">https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/Pages/CDPH-Approved-Cholinesterase-Laboratories.aspx</a>
- 4. <u>ESTABLISH BASELINE</u>. ChE activity levels **before** follow-up testing after a 30 days exposure-free period or after the longest practicable exposure-free period possible if less than 30-days. One test is permissible although an average of two tests 3-14 days apart is recommended. **Do not use lab normal values for baselines**. Verify baseline at least every two years.
- 5. ORDER FOLLOW-UP TESTS as required. Test once within 3 days after each of the first three 30-day qualifying period. After the first three 30-day qualifying periods, testing intervals must be every other 30-day qualifying period (not necessarily continuous 60 days) unless otherwise specified in writing by the medical supervisor.
- 6. <u>COMPARE FOLLOW-UP RESULTS TO THE BASELINE</u> to evaluate for inhibition of ChEand make recommendations, including:

Percent of Baseline	RBC ChE	Plasma ChE
< 80%	Prompt retesting of worker and investigation of work practices by employer	
≤ 70%	Immediate removal of worker from further exposure	-
≤ 60%	-	Immediate removal of worker from further exposure

- ➤ NEW! NOTIFY WORKER AND EMPLOYER OF RESULTS. Ensure that both the tested worker and his/her employer receive a copy of the ChE test results, and any recommendations from the medical supervisor based on those results within 14 days of the medical supervisor receiving the results.
- 7. **NEW!** REPORT PESTICIDE EXPOSURE. Report any worker with ChE depression indicating pesticide exposure to the Local Health Officer within 24 hours.
- 8. <u>ALLOW RETURN TO WORK (RECOVERY)</u>. Test frequently to determine when a worker removed from further exposure to these pesticides can resume working with them, i.e., when ChE activity levels return to ≥ 80 percent of both RBC and plasma baseline values. Notify the worker and employer when the worker can return to work.