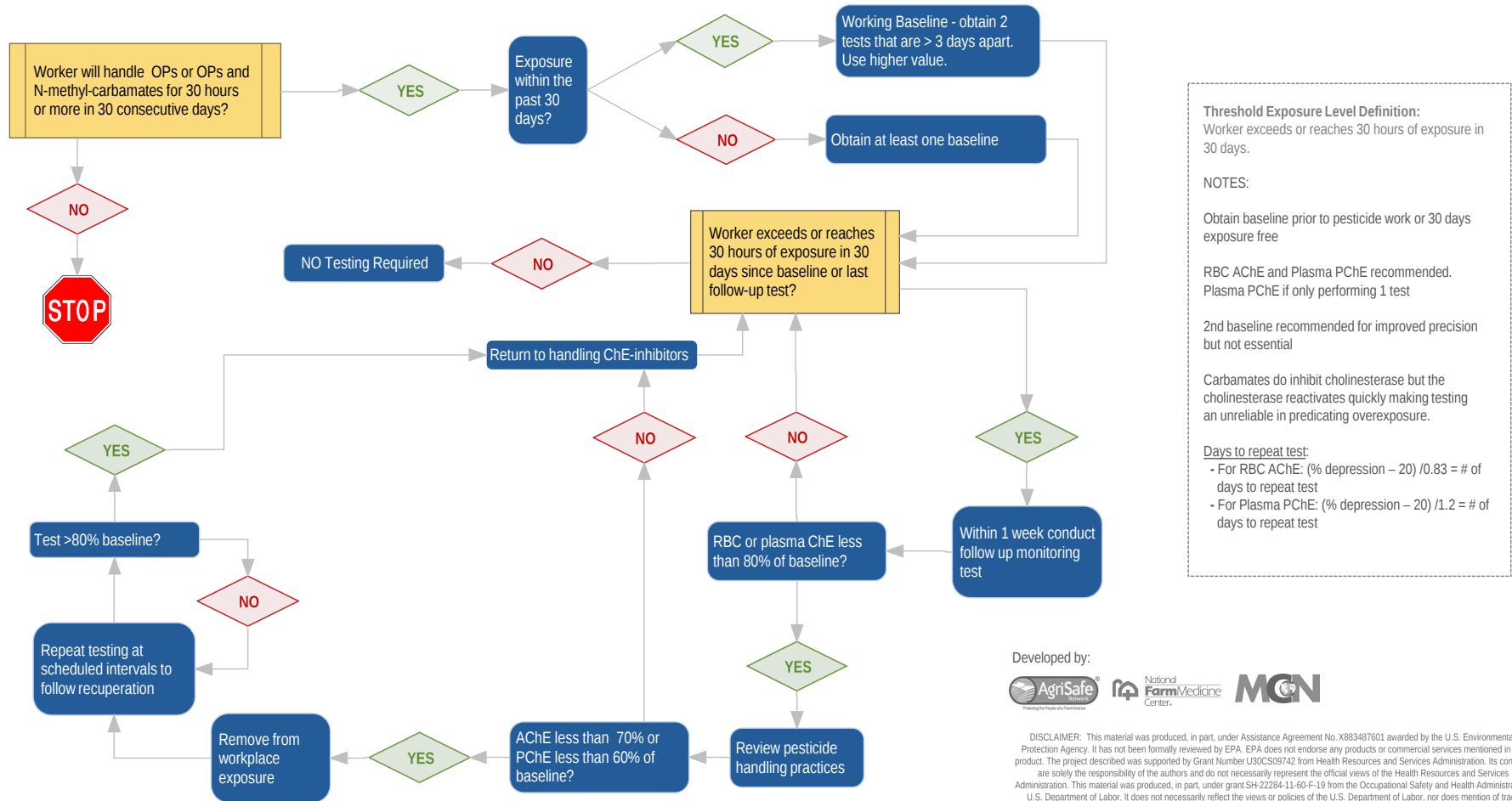


Cholinesterase Testing Protocol Algorithm



Threshold Exposure Level Definition:
 Worker exceeds or reaches 30 hours of exposure in 30 days.

NOTES:

- Obtain baseline prior to pesticide work or 30 days exposure free
- RBC AChE and Plasma PChE recommended. Plasma PChE if only performing 1 test
- 2nd baseline recommended for improved precision but not essential
- Carbamates do inhibit cholinesterase but the cholinesterase reactivates quickly making testing an unreliable in predicating overexposure.

Days to repeat test:

- For RBC AChE: $(\% \text{ depression} - 20) / 0.83 = \# \text{ of days to repeat test}$
- For Plasma PChE: $(\% \text{ depression} - 20) / 1.2 = \# \text{ of days to repeat test}$



DISCLAIMER: This material was produced, in part, under Assistance Agreement No. X883487601 awarded by the U.S. Environmental Protection Agency. It has not been formally reviewed by EPA. EPA does not endorse any products or commercial services mentioned in this product. The project described was supported by Grant Number U30CS09742 from Health Resources and Services Administration. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Health Resources and Services Administration. This material was produced, in part, under grant SH-22284-11-60-F-19 from the Occupational Safety and Health Administration, U.S. Department of Labor. It does not necessarily reflect the views or policies of the U.S. Department of Labor, nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. Government.