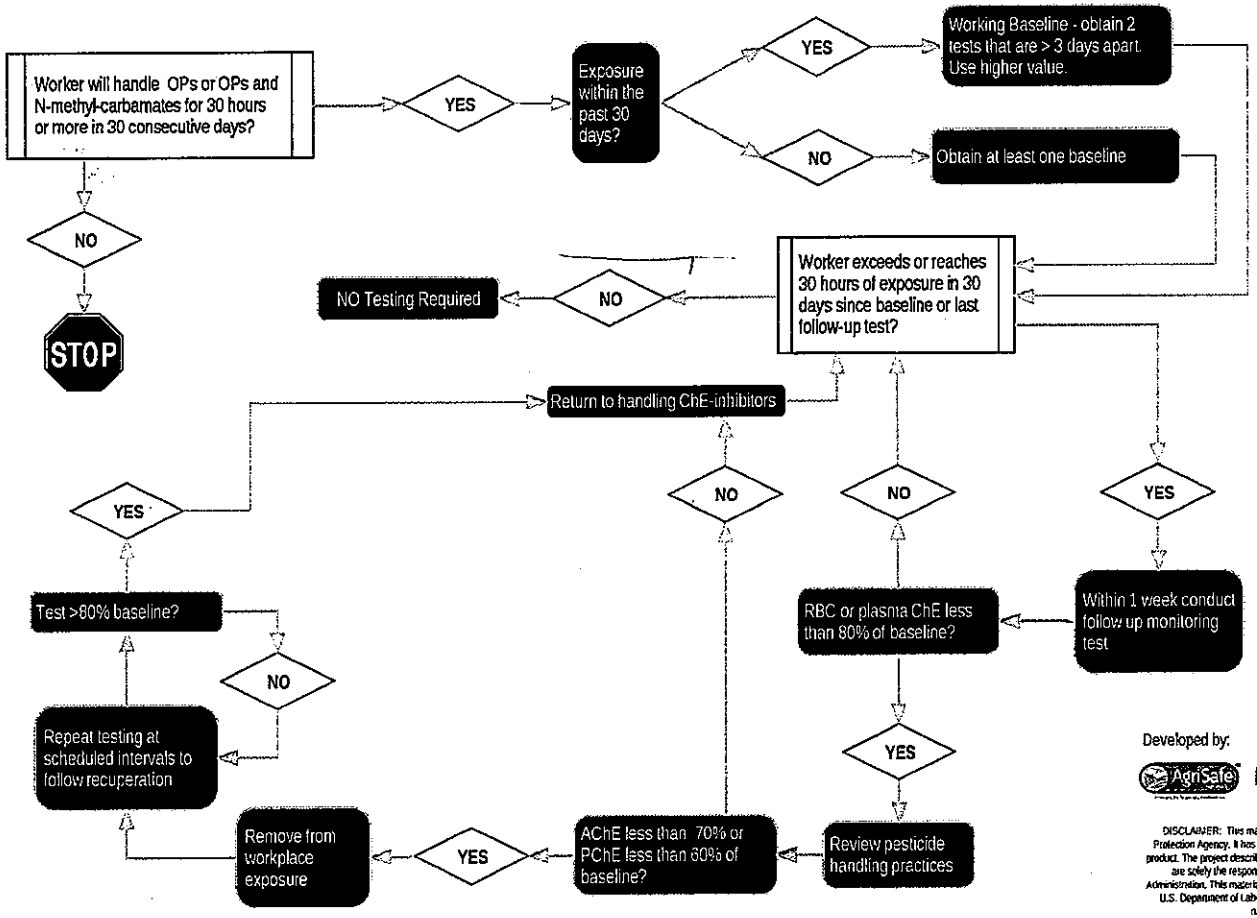
Cholinesterase Testing Protocol Algorithm



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: (% depression – 20) /0.83 = # of days to repeat test
- For Plasma PChE: (% depression – 20) /1.2 = # of days to repeat test

Developed by:

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