



Prevalence Study

About NCOAA

The National Carbon Monoxide Awareness Association (NCOAA) is a non-partisan, grassroots, civic-minded organization that is focused on eradicating carbon monoxide poisoning and helping carbon monoxide poisoning survivors recover to lead a happy, healthy, and productive life.

Our vision is an end to carbon monoxide injury and death.

Background

In the UK, one in six homes has carbon monoxide poisoning. What if the same were true here in the US? There has not been a comprehensive study done on residential carbon monoxide exposures in the US. We aim to establish a baseline measure to inform first responders and the general public of the residential carbon monoxide poisoning risk.

Pilot Study

NCOAA will study the prevalence of carbon monoxide (CO) poisoning in low-income homes in Detroit, Michigan. The research study will use CO loggers to continuously measure CO levels in homes. Data loggers will be placed in each home for a period of 14 days. A home health survey will also be distributed to homeowners and residents. At least 75 participants are needed for statistical analysis, but we hope for as many as 150.

Statistical data analysis will assess the prevalence of CO in homes and identify patterns regarding the duration and variance of household CO levels. A breath test will be performed on residents at the start of each home logger placement. Wayne State University's Center for Urban Studies' Healthy Homes Project is a trusted resource with strong ties to the community.

1 in 6 Homes in the UK Have Carbon Monoxide Poisoning

Dissemination

Analysis of data will be conducted by a PhD researcher. Results will be reported to the general public via a published, peer-reviewed research study. A press release highlighting the study's findings will be published and distributed to media contacts. In addition to the research paper, a 1-2 page article summary will be published on the NCOAA website.

Budget

The approximate cost for conducting this research is \$75,000-\$150,000, depending on the number of participants we recruit. Funds will be used to manage the project, train AmeriCorps Staff, purchase data loggers, survey the participants, and collect and analyze data for 75 homes.