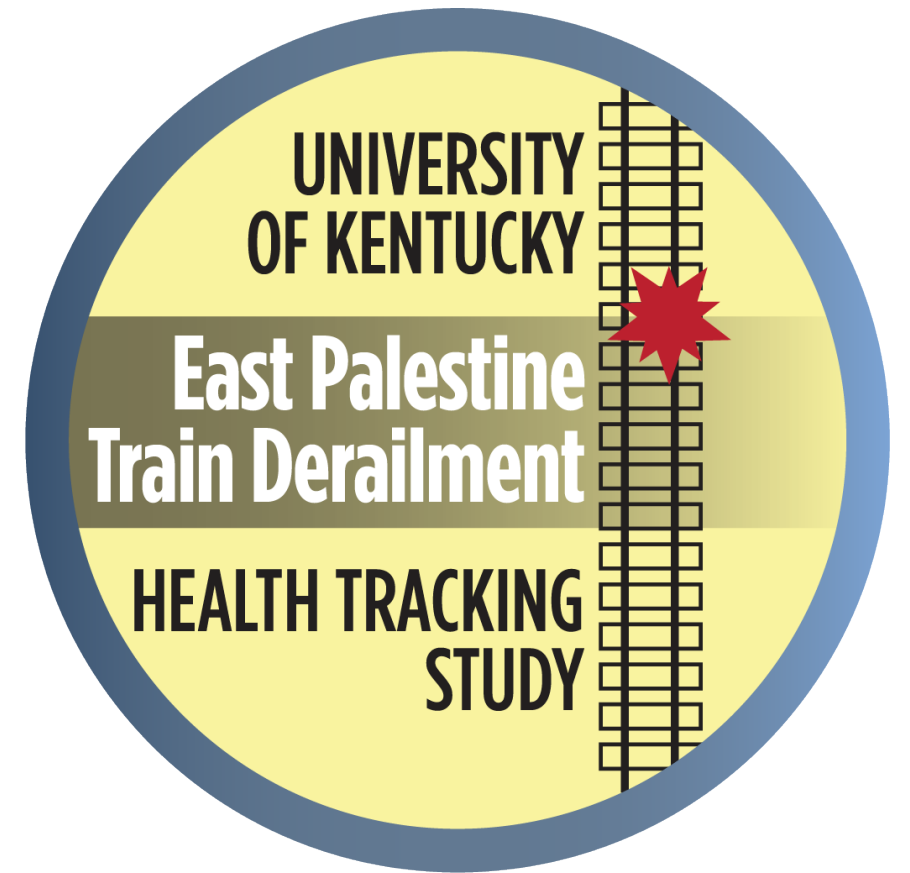


East Palestine Train Derailment Health Tracking Study: Addressing Exposure and Health with and for the residents following the disaster



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Many questions -

- Who was exposed?
- Could we collect data now that could eventually be used to characterize exposure?
- What health symptoms were experienced?
- How far from the derailment site were symptoms experienced?
- What are residents' concerns and research questions?

Answers require community partnership -

Participants who
complete the survey will be
entered into a
MONTHLY \$100 RAFFLE!

**If you are 18 or older and you live in
Columbiana, Mahoning, Stark, Carroll,
Jefferson, Lawrence, Hancock or Beaver County**

**You are invited to participate
in a brief online survey**



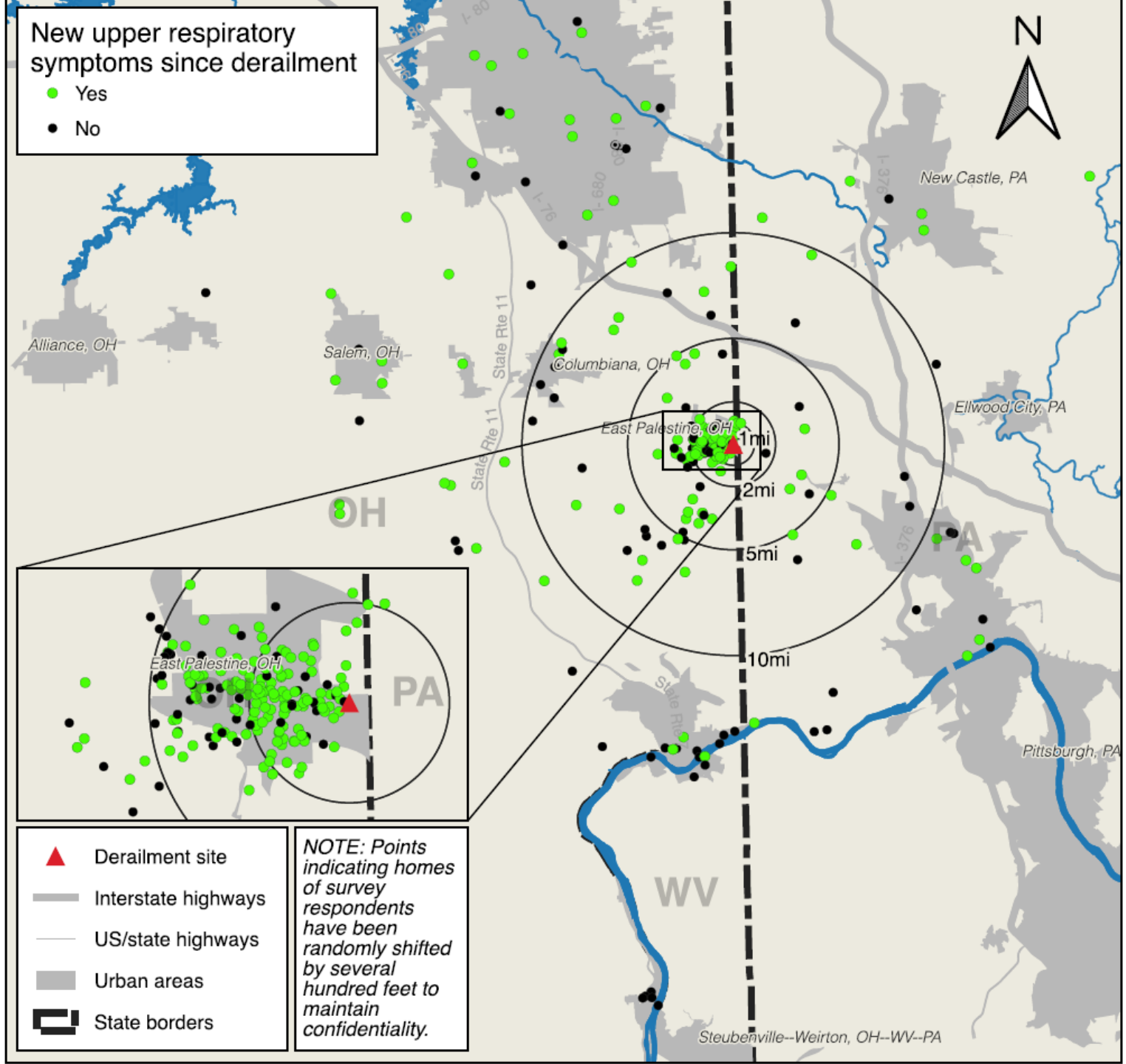
To participate in our research go to **bit.ly/ukep-study**

Or point your phone's camera at this QR code



New symptoms as of 9/14/2023	ADULTS, N=386 N(%)	CHILDREN, N=114 N(%)
Upper airway: nose irritation/sinus drainage/sinusitis/eye irritation/lacrimation/sore throat	247 (64%)	72 (63%)
Headache, non-sinus headache	225 (58%)	69 (61%)
Shortness of breath/decreased exercise tolerance	109 (28%)	16 (14%)
Lower airway: cough, wheezing	176 (46%)	48 (42%)
Asthma exacerbation, bronchospasm	42 (11%)	13 (11%)
GI: nausea, vomiting, abdominal pain, diarrhea	120 (31%)	32 (38%)
Rash	91 (24%)	29 (25%)
Lethargy/Tiredness/weak	123 (32%)	26 (23%)

Survey Respondents, n=386



Perceived Stress Scale 4, n=327

Perceived Stress Scale 4 (PSS-4)	mean \pm SD
Total Score	6.6 \pm 4.96
Average score \geq 6	198 (61%)

Post-Traumatic Stress Disorder Screening, n=339

Post-traumatic Stress Score	n (%)
<4	207 (61%)
≥4	132 (39%)

Biological Pilot Study, n=20
July 17-18, 2023
First United Presbyterian Church

- Blood:


- Dioxins

- Centers for Disease Control and Prevention,
National Center for Environmental Health,
Division of Laboratory Sciences

- Urine:

- *Developing new methods* for vinyl chloride
and acrolein metabolites and butyl-acrylate
and 2-ethylexyl acrylate
 - Wayne State University



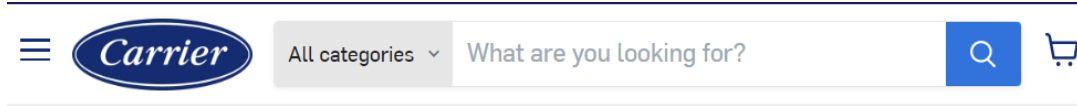


84 silicone wristbands July 16-23

PAHs and dioxin: Duke University, HHEAR Lab

Butyl-acrylate, 2-ethylhexyl-acrylate: Wayne State University, CLEAR Lab

Paired Community-Led Air Monitoring with VOC badges



Home > Carrier Air Quality Monitor



Carrier Air Quality Monitor

★★★★☆ 67 Reviews

\$120.00

Our smart indoor air quality monitor can help you monitor the quality of the air in your living space. Its compact design makes it easy to place within different rooms throughout your home.

- Detects fine particles (PM2.5), which are associated with allergies and asthma.¹

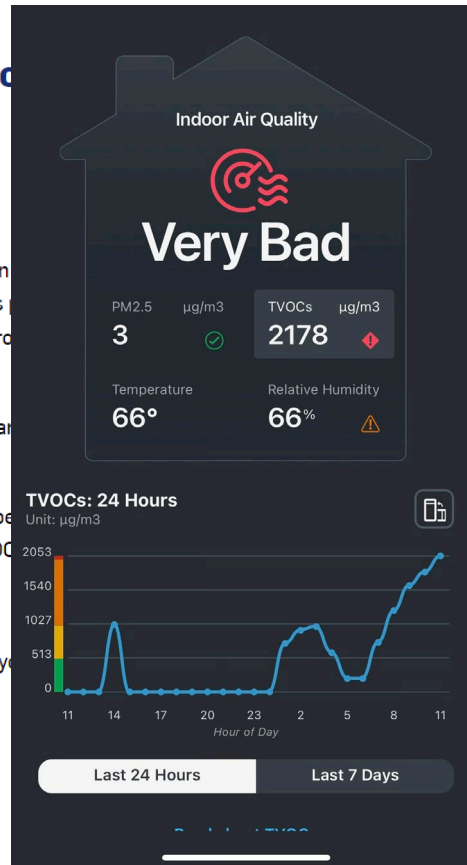
- Monitors relative humidity, room temperature, and Total Volatile Organic Compounds (TVOCs).

- Provides 24-hour air monitoring.

- Use the Carrier Home app to monitor your indoor air quality from anywhere.²



Click to expand



Acknowledgements

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