

LC 4: Combating Lead Poisoning with People Working Cooperatively

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Introduction



Early childhood exposure to lead is linked to **decline in academic achievement** and cognitive and **behavioral impairment**



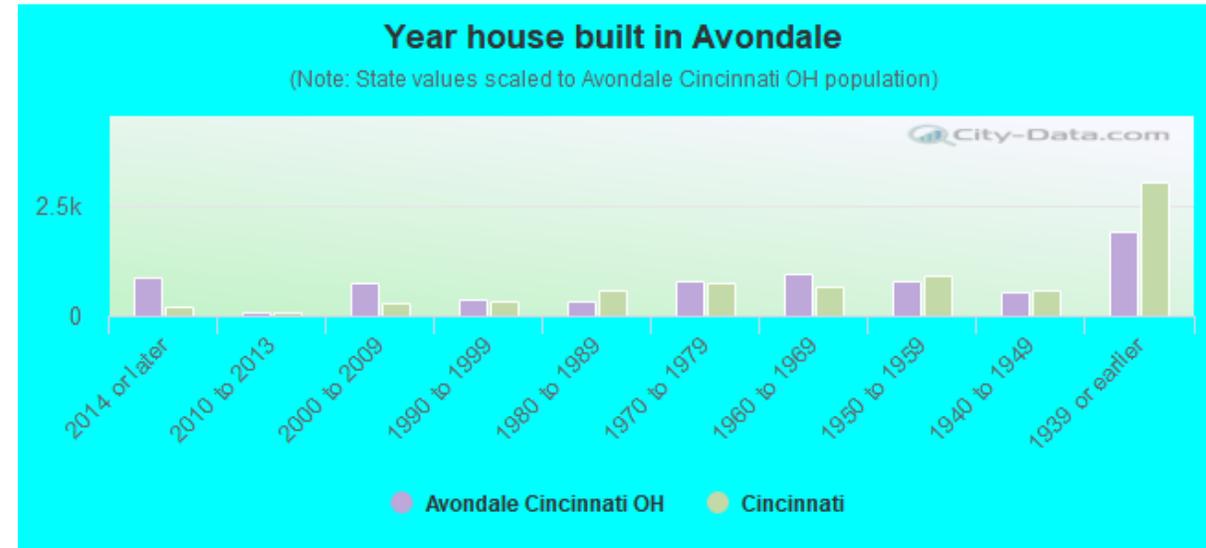
The CDC's cutoff for blood lead levels is **5.0 ug/dL**



Harmful exposure can commonly be attributed to sources such as contaminated soil, household dust, and **deteriorating lead paint**.



Lead paint was **not banned** from housing construction **until 1978**



Avondale neighborhood in Cincinnati, Ohio (OH), 45217, 45219, 45220, 45229 detailed profile. Avondale neighborhood in Cincinnati, Ohio (OH), 45217, 45219, 45220, 45229 subdivision profile - real estate, apartments, condos, homes, community, population, jobs, income, streets. <http://www.city-data.com/neighborhood/Avondale-Cincinnati-OH.html>.

Service Objectives

- Helping community members learn how to protect themselves and families from lead poisoning
- Providing educational materials
 - Bringing people from the community in: interactive display
 - Going out into the community: pamphlets

Learning Objectives

- Social Determinants of Health
 - Housing
 - Socioeconomic status
- Clearly communicating findings
- Teamwork and organized collaboration

Community of Avondale

- Many beautiful and historic homes
 - Housing structure is older and needs repairs
 - 48% built prior to 1939
- Predominantly African American neighborhood (91%)
- Median household income of \$18,120
 - Below the average U.S. household income
- Having a healthy and safe home environment is a crucial determinant of health



Community Partnership: People Working Cooperatively (PWC)

- ▶ PWC works in the greater Cincinnati area to provide over 8,000 home services every year
- ▶ Services:
 - ▶ Critical home repairs
 - ▶ Energy conservation
 - ▶ Accessibility and safety modifications
- ▶ Cincinnati Lead Education and Remediation (CLEAR) Program
 - ▶ Works with the city of Cincinnati to educate about and eliminate lead exposures in the community



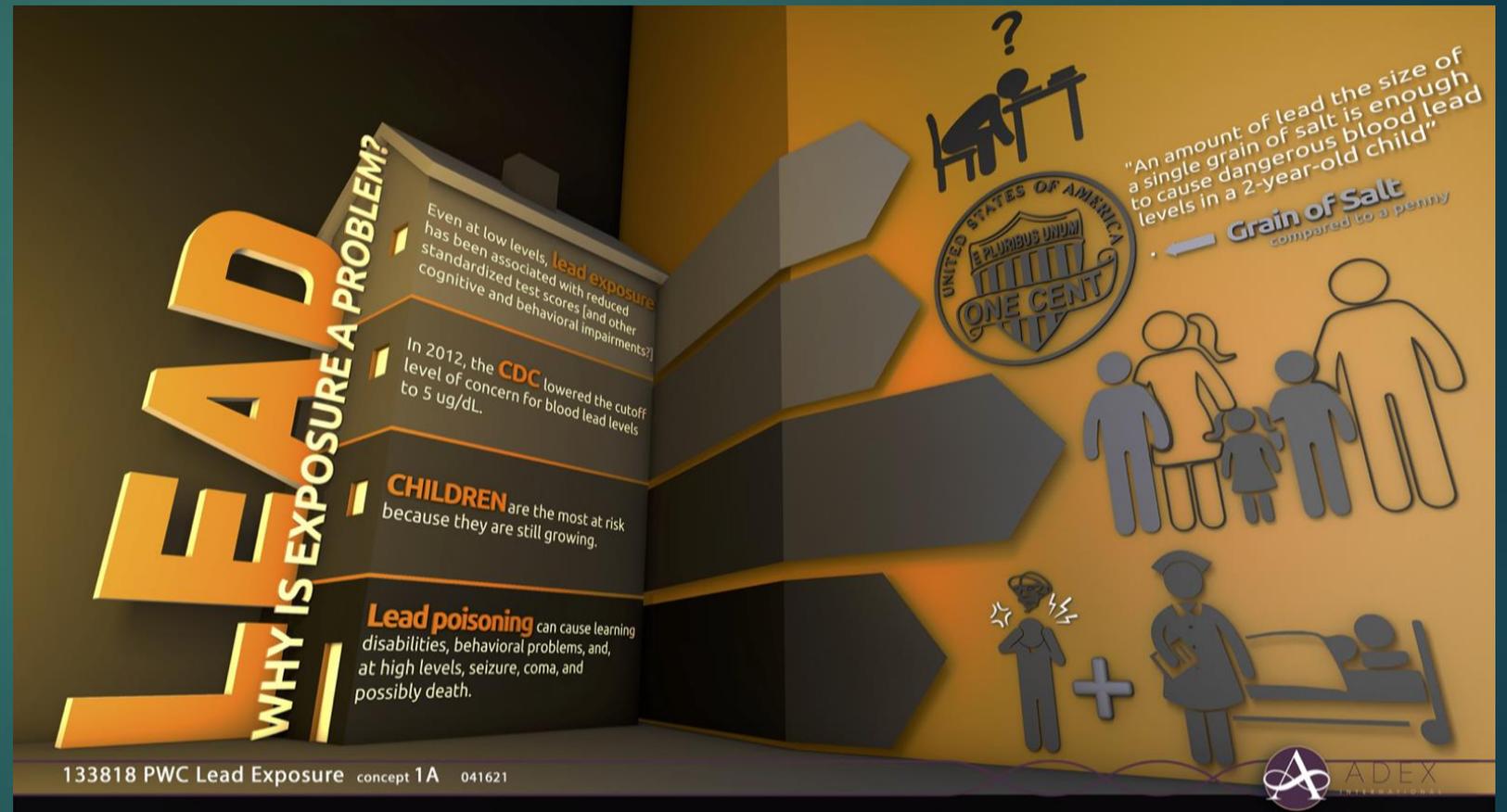
Community Partnership: Role of PWC

- ▶ PWC Innovation Center
 - ▶ Interactive educational gondolas
 - ▶ Interactive exhibits
- ▶ PWC's Lead Education
 - ▶ PWC wished to expand their lead education and partnered with UCCOM LC 4
 - ▶ We were tasked with collaboratively researching and designing an interactive gondola for PWC's innovation center



Project Design/Outcomes

- Initial design for the informative physical display at the PWC Innovation Center
- PWC tasked us with answering four major questions regarding lead poisoning:
 - Why is it a problem?
 - Who is most affected?
 - Where can it be found?
 - What can I do to prevent it?



Community Survey Progress

Completed Surveys

Building Value

Ohio Landlord Tenant

Resource Preferences

Pamphlet (2/2)

Website Information
(2/2)

Virtual Presentation
(1/2)

Pending Surveys

Community Action Agency

St. Vincent Depaul

Churches Active in Northside

Habitat for Humanity

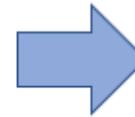
Veterans Service Commission

Go Local (Crossroads Church)

Volunteer Cincinnati

American Red Cross

VA Medical Center Hospital



Future Opportunities

Free Store

Madisonville
Education/Assistance Center

Elm St. Health Clinic

U.C. Clinic

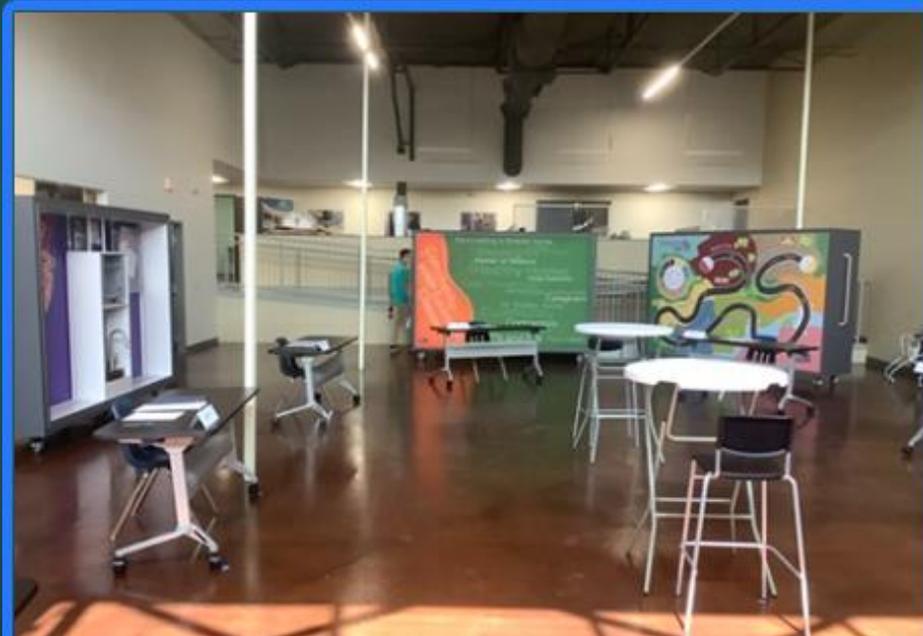
City Link

Council on Aging

Outcomes/ Reflection Outcomes by LC and Community

- ▶ Community Partner Feedback:
 - ▶ While our project is ongoing, PWC believes this project will establish the PWC Innovation Center as the nexus of community-based hazardous environmental lead education in the Greater Cincinnati area.
- ▶ Community Member Feedback:
 - ▶ With the pandemic making it more difficult - particularly for older members - to get involved in the community, it is exciting to see volunteers stepping up and taking on new projects
- ▶ Perception of Community and Health:
 - ▶ We were all challenged to better understand the dramatic impacts of safe and clean housing as a social determinant of health. Through numerous talks with our community partner, members in the community, and our own research, we were able to appreciate the importance of safe housing to the health and prosperity of a community.
- ▶ Role of Physician:
 - ▶ This project confirmed our understanding of the physician as a listener and an educator. Our community partner expressed a need in the community, and we used our knowledge and resources to provide that need to the best of our abilities.
- ▶ Outcomes:
 - ▶ TBD

Next Steps



Innovation Center (Covid Compliant Layout)

Possible Future UCCOM Project @ PWC:
Asthma and Air Quality educational materials

Acknowledgements

- ▶ Aaron Grant
- ▶ Nina Creech



- ▶ ADEX



- ▶ UCCOM



WELCOME
VOLUNTEERS



Questions?