

Engaging Health Professionals in Environmental Public Health

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Disclaimer & Acknowledgment

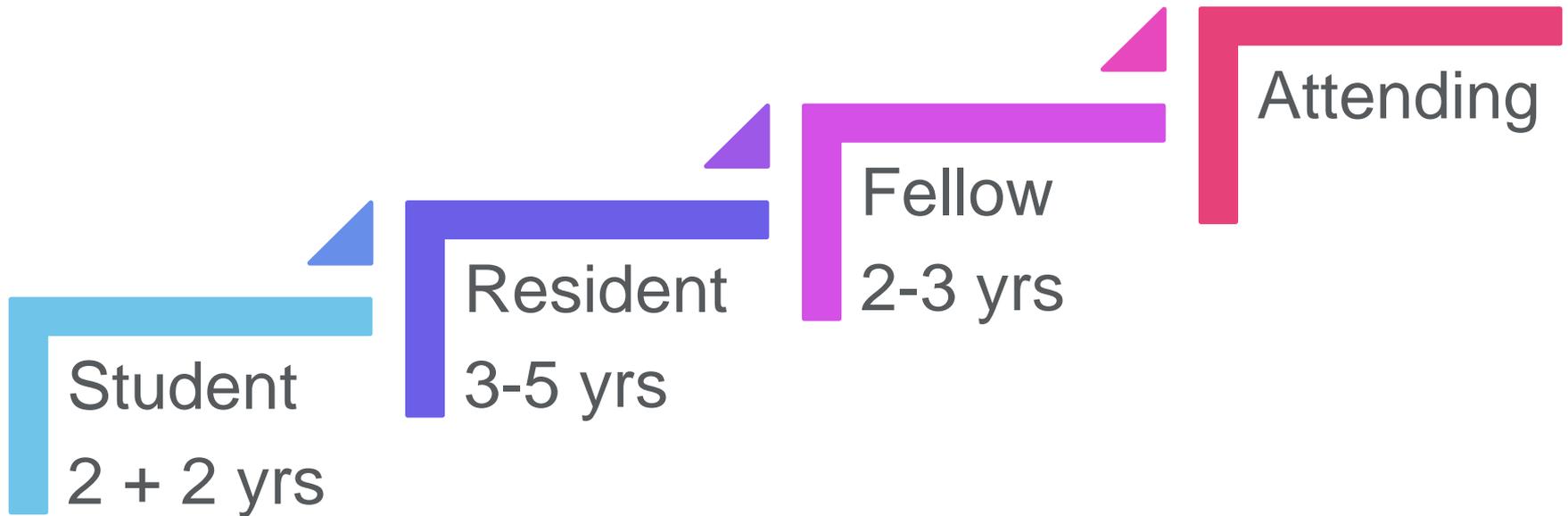


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- NIOSH ERC Cincinnati T42OH008432
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- Ohio Department of Health

Overview

- Description of learners
- Description of activities
 - Didactic
 - In-Clinic teaching
- Funding mechanisms
- Outcomes
- Lessons learned

Medical Education



Learners

- Community Health Workers
- Medical Students
- Residents
 - Pediatrics
 - Family Medicine
 - Occupational/Environmental Medicine
- Nursing school

Venues

- Traditional lecture
- Grand Rounds
- “Academic detailing”
- Pre-clinic teaching
 - Part of Cincinnati Children’s “Residents as Teachers” program
 - 10 minute talk given by residents but prepared by faculty
- In clinic teaching
 - Environmental Health Clinic

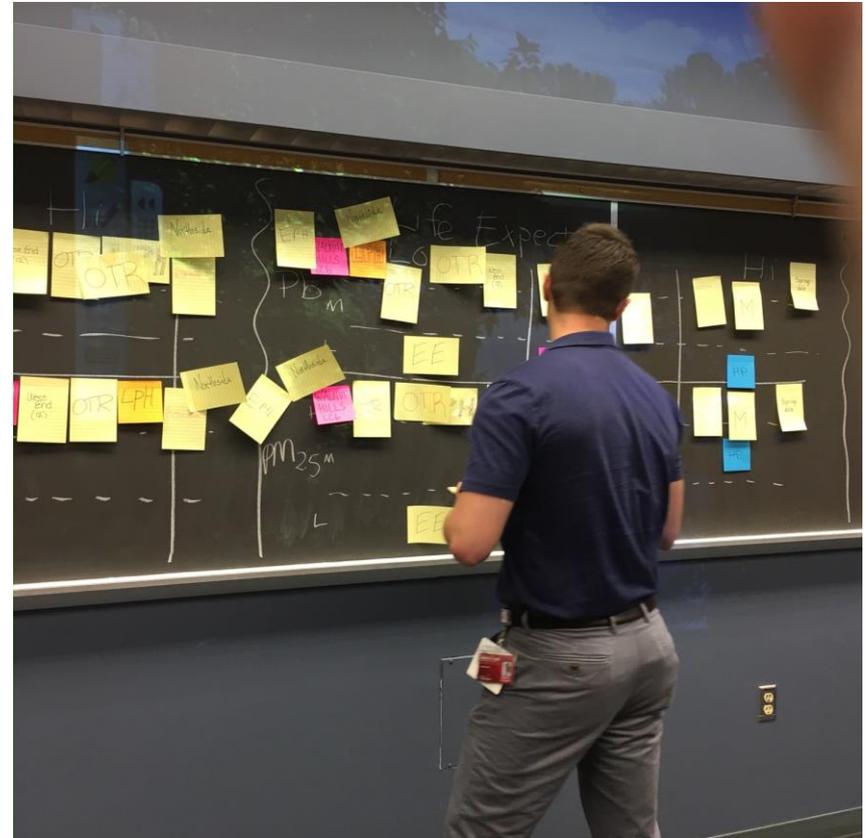
Opportunities for Environmental Health Content

Audience	Lecture	Grand Rounds	Academic Detailing	Pre-Clinic Teaching	Clinical Rotation
Medical Students	X	X		X	X
RN Students	X				X
Community Health Workers			X		
Peds Residents	X	X		X	X
Family Med Residents	X	X			X
OEM Residents	X	X			X
Practicing Clinicians		X	X		

Example Activities

1st Year Medical Students

- Intro to Epi
- Environmental Justice Activity
 - Exposures and Health Outcomes by neighborhood
 - “Live” R x C tables
 - Bring epidemiology to life to their learning communities



Academic Detailing

- Ohio Dept of Health
- Lead poisoning prevention initiative
- Presented at 4 primary care clinics (community based)



Clinic Teaching Website

The screenshot shows a web browser window with the address bar displaying `wiki.ucfilespace.uc.edu`. The browser's address bar also shows several tabs: CAGIS - Property Activity, AmazonSmile, WHHS, Library, WVXU, Apple, Save to Flow, Cincinnati Bell WebMail, News, Apple, and Cincy Weather. The website content includes a search bar with the text "wiki blog" and "Q Search". Below the search bar is a navigation bar with the University of Cincinnati logo and the name "Nicholas Newman, DO, MS". The main content area features a star icon and the title "Environmental Health & Lead Clinic Rotation Materials". Below the title, there is a paragraph of text: "The following information, files, and links will be useful to medical students and residents doing a rotation in the Environmental Health and Lead Clinic at Cincinnati Children's Hospital Medical Center. Many of the patients seen in this clinic have either subclinical or overt lead poisoning. We also see children with other exposures such as mold, other heavy metals, carbon monoxide, concerns regarding indoor air quality, and pesticides." This is followed by a section titled "The minimal objectives for this clinic rotation:" with a numbered list of three items: 1. See a functioning example of a collaboration between clinical medicine and public health; 2. Learn how to obtain an environmental health history; 3. Learn how to respond appropriately to an elevated blood lead level. Below the list, there is a "Location:" section stating the clinic is at 3430 Burnet Ave., 2nd floor. A "Schedule:" section follows, detailing the clinic hours and providing a link to the hospital's website for directions. The final section is "Critical files and links for the clinic rotation", which includes a link to a "Survival Guide.pdf" file.

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Tags [environmental health](#), [pediatrics](#) +

Edited Today at 3:51 PM by Nicholas C Newman

★ Environmental Health & Lead Clinic Rotation Materials

The following information, files, and links will be useful to medical students and residents doing a rotation in the Environmental Health and Lead Clinic at Cincinnati Children's Hospital Medical Center. Many of the patients seen in this clinic have either subclinical or overt lead poisoning. We also see children with other exposures such as mold, other heavy metals, carbon monoxide, concerns regarding indoor air quality, and pesticides.

The minimal objectives for this clinic rotation:

1. See a functioning example of a collaboration between clinical medicine and public health
2. Learn how to obtain an environmental health history
3. Learn how to respond appropriately to an elevated blood lead level

Location: The clinic is physically located at [3430 Burnet Ave.](#), 2nd floor in the consult clinics area (near the elevators by the welcome desk)

Schedule: Thursdays 8:30AM-5:00 PM in the CCHMC MOB; there is also clinic on the 1st, 3rd, 5th Tuesday afternoons Cincinnati Children's Liberty Campus. For locations and directions to these satellite locations click here:
<https://www.cincinnatichildrens.org/patients/visit/directions>

Critical files and links for the clinic rotation
Clinic survival guide including information about accessing Epic EHR in our clinic as well as the Environmental Health History template *** MUST READ***

Survival Guide.pdf

https://wiki.ucfilespace.uc.edu/groups/nicholasnewmandomsfaap/wiki/f6d73/Environmental_Health_Lead_Clinic_Rotation_Materials.html

Clinic Rotation

- 90% - cases related to lead exposure
- 10% - mold, other metals, IAQ
- Medical students – 3 x ½ day sessions
- OEM residents – 8-12 days
- Pediatric/Family Medicine residents – ½ day
- Learning how to take an environmental history

Funding

- P30 Center – Community Engagement Core
- T42 – NIOSH Occupational Medicine Training grant
- Pediatric Environmental Health Specialty Unit
- Ohio Department of Health
- Each has different focus

Outcomes

- Medical students
 - 175 1st year students/year – lecture
 - 35 3rd year students/year – clinic rotation
- Residents
 - 60-100 residents/year receive didactics
 - 20-30 residents/year – clinic rotation
 - Train the next generation

Outcomes

- Community Health Workers
 - Multiple meetings
 - Home visits
 - “See the light”

Outcomes

- Community Physicians
 - After PLANET
 - 2 practices now asking for help
 - Developing QI process to improve lead screening
 - Future scholarly activity?
 - Many questions beyond lead
 - Families are demanding answers
 - Trying to meet the need

Lessons Learned

- There are many requirements for health care provider training
 - Integrate into current system
 - Don't invent a new system
- Nurses and Community Health Workers very open to Environmental Health
- Be visible and willing to help
- Collaborate with educators

Lessons Learned

- 1st year medical students don't like getting out of their seats
- Competing Priorities
- Many learners find this work really interesting but they don't know about it

Frustrations

- Provide the content that is requested
 - Lead
 - Asthma
 - Not emerging toxicants
 - Sometimes Pediatric Environmental Health concepts

Thank you

- Erin Haynes, DrPH
- Rachael Shepler, BA
- John Belt, MS
- Joseph Kiesler, MD