

Integrating Environmental Health Information and Interventions into Medical Education: Barriers and Opportunities

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Clinician Education

- "Preventing Air Pollution-related Cardiopulmonary Illnesses"
- Clinicians should be EPA's biggest allies
- Clinicians' education provides only cursory the facts about the relationship of air pollution exposure to disease and prevention and...
- Fails to provide clinicians with any training about what they can do for "Preventing Air Pollution-related Cardiopulmonary Illnesses"

GW

NB: Don't shoot the messenger:

- "Traditionally, medical schools do not include a significant amount of content on air pollution main emphasis is on cigarette smoke"
- "Unlike other topics, I have not seen national recommendations about what should be the core content of air pollution in medical school."
- "I've been on test writing committees for many years for the NBME and ABIM and have never been asked to write a question on air pollution."
- "We all assume that air quality is getting better, what is the compelling reason to include this topic?"



Expanding scope of practice post-ACA:

- Excellence in providing care to individual patients and...
- Understand and work within health systems and teams to address community factors that lead to and perpetuate poor health (social determinants of health)
- Clinicians' education must now include Clinical Public Health School of Medicine

& Health Sciences



- How Clinicians Can Eliminate Childhood Asthma in Washington, DC
- Required for all 180 1st year GW med students
- 3-day interactive and field-based program:
- Children with asthma and families
- Schools/school nurses
- Clinicians/clinical support services and coordination
- Home/environmental assessment
- Community organizations
- Government agencies (health, environment, transportation, energy)



Clinical Public Health Summit

Students groups develop innovative proposals in four major domains associated with childhood asthma:

- Environmental factors
- Social determinants of health
- Health care
- Asthma management adherence

Student proposals focus on four spheres of influence within a child's life:

- Home
- School/Pre-School/Childcare
- Community/Neighborhood
- City/District of Columbia

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- Student Proposals presented to panel of experts & families of children with asthma:
- Proposal to WMATA for changes in Metro and implement a Core System Loop to decrease auto emissions in Wards 7/8
- Employ community members as educators about environmental asthma triggers in high prevalence communities
- Targeted education to pregnant DC residents from high risk neighborhoods about preventable risk factors for developing childhood asthma
- Improvement of indoor air quality in DC schools to decrease asthma-related school absences



- Develop and disseminate a standards/core curriculum for clinicians on air pollution
- Create incentives to promote innovations in clinician education to transmit that core curriculum
- Target clinicians' various roles: clinical, health systems and community
- Meet with licensing and credentialing bodies

 promote this core curriculum as part of
 credentialing and licensure requirements