

Environmental Justice Climate Change Scholar Program (EJCC)

Educational Objectives**

These objectives are meant to be for information purposes only. Many EJCC scholars may not be able to achieve many, or even some, of these during a rotation or elective. How many they might accomplish will depend, in part, on the duration and focus of the educational experience.

A. Foundational Knowledge in Pediatric Environmental Health

1. Identify relevant EH resources for screening, diagnosis, risk communication, and treatment.
2. Explain how fetal and childhood epigenetics, physiology, organ maturation, and behaviors at different stages of development increase the impact of environmental exposures.
3. Describe prenatal, perinatal and pediatric conditions linked to environmental factors.
4. Describe prenatal, perinatal and pediatric exposures that may lead to disorders in birth outcomes, childhood, adolescence, and/or adulthood.
5. Describe aspects of the environment that nurture healthy growth and development in the fetus, child, and adolescent.
6. Describe social determinants of health and health disparities related to physical/social environmental factors

B. Individual Patient Care

1. Take an environmental history from a patient/parent.
2. Apply EH screening questions as developmentally appropriate in preventive care
3. Apply appropriate environmental and biological sampling and measurement both for screening and diagnostic testing and interpreting results appropriately.
4. Develop a plan to reduce a patient's or a child's exposure to environmental contaminant(s).
5. Evaluate the effectiveness of therapies and methods of reducing environmental exposures.
6. Create and implement appropriate EH anticipatory guidance, risk counseling, and hazard reductions
7. Identify and coordinate available community resources to improve a patient's well-being.

C. Community Health and Advocacy

1. Assess an environmental exposure in a community.
2. Communicate about environmental risks to community members, school board, or other stakeholders.
3. Interpret legal, regulatory, and non-regulatory approaches to addressing EH issues.
4. Identify partners and resources for addressing EH risks, and for counseling and management at the community level.
5. Develop media literacy in order to use media education as an advocacy tool.
6. Describe sentinel events and strategies for their public health reporting

D. Research

Specific research opportunities will be discussed at the beginning of the elective and may include opportunities within the PEHSU or the Boston Children's Hospital Pediatric Environmental Health Center (PEHC).

**Modified from: Etzel et al. 2003. Pediatric environmental health competencies for specialists. *Ambul Pediatr*; 3(1):60-63 AND Goldman RH et al. Developing and implementing core competencies in children's environmental health for students, trainees, and healthcare providers: a narrative review. *BMC Medical Education* 2021; 21: 503.

E. Course Evaluation

Each student is expected to submit a self-reflection and provide a final presentation on what they learned during this experience, activities in which they participated, and how it impacted their future educational and career plans.