Sources and Mitigation Strategies for Pediatric Environmental Exposures to Arsenic

Presented by:
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Dr. Jesica Urbina is the program manager for the COVID-19 Project for the Southwest Center for Pediatric Environmental Health and the senior research associate for the Training and Educational Center for Healthcare Simulation (TECHS) at Texas Tech University Health Sciences Center El Paso. Dr. Urbina completed her Ph.D. in microbiology and environmental toxicology at the University of California Santa Cruz while working at NASA Ames Research Center as a graduate research associate. Her work involved engineering proteins to capture heavy metals to reclaim and recycle them from waste water, as well as lowering the toxic load in the environment. She previously earned her Master of Science in environmental science and Bachelor of Science in microbiology from the University of Texas at El Paso. Her current work involves research in health care simulation, developing materials for dissemination about pediatric environmental health, and collaborations with university partners on environmental toxicology and health care simulation projects.

Objectives: Upon completion of this session, participants should be able to:

- Discuss how to determine environmental sources of arsenic.
- Recognize the mechanism and pathophysiology of arsenic toxicity.
- Recommend mitigation strategies to minimize arsenic exposure in children.

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