Farm Toxicology for Primary Care

Recognition and Management of Pesticide Poisonings

Online Self-Paced Learning Available November 1, 2021 - August 31, 2024

Course Description

Agricultural workers and their families are exposed to pesticides used in agriculture today. These chemicals enable farmers to deliver higher yields to meet the growing demand for food worldwide. However, they also have varied toxicity – both acute and chronic.

This online self-paced course focuses on the recognition and management of pesticide poisonings, including critical information sources and the long-term consequences of pesticide exposure. Insecticides, herbicides, rodenticides, fungicides, and poisonous gases are explored through cases, mechanisms of toxicity, acute and chronic clinical effects, differential diagnosis, and management. Emphasis is placed on the importance of the occupational and environmental history.

Who Should Participate

Physicians, physician assistants, nurse practitioners, and nurses practicing in primary care.

Photo: Pixabay







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Learning Objectives

Upon completion of this knowledge-based educational activity, participants should have greater knowledge and understanding of strategies to recognize and manage pesticide poisoning in primary care.

- Describe the importance of pesticide use to US agriculture
- Identify barriers to the recognition and management of pesticide poisonings
- Apply concepts & strategies learned to take an occupational & environmental history, use differential diagnosis techniques to identify, evaluate and treat acute and chronic pesticide poisonings
- Utilize resources available to gain insight into specific poisonings
- Describe different classes of pesticides and associated toxicity, physical findings, differential diagnosis, laboratory tests, and treatments

Course Modules

Module 1 Introduction to Farm Toxicology

William J. Meggs, MD, PhD, FACMT, FACEP

Professor, Division of Toxicology Department of Emergency Medicine Brody School of Medicine at East Carolina University

Module 2 Critical Information Sources

William J. Meggs, MD, PhD, FACMT, FACEP

Professor, Division of Toxicology Department of Emergency Medicine Brody School of Medicine at East Carolina University

Module 3

Cholinergic Agents and Organochlorines

Dalia Alwasiyah, MD

Emergency Medicine Consultant Medical Toxicology Consultant

Module 4

Pyrethroids, Nicotine & Neonicotinoids

Jason B. Hack, MD, FACEP, FACMT

Professor of Emergency Medicine Chief, Division of Medical Toxicology Brody School of Medicine at East Carolina University

Module 5 Herbicides

Stephanie T. Weiss, MD, PhD

Senior Addiction Medicine Research Fellow Wake Forest School of Medicine

Module 6 Rodenticides

Ricky Langley MD, MPH

Adjunct Associate Professor Department of Public Health East Carolina University

Module 6 Fungicides

H. Thomas Cusick III, MD

Occupational and Environmental Medicine Resident Duke University

Module 7

Poisonous Gases

Jennifer Parker Cote, MD

Assistant Professor, Department of Emergency Medicine Division of Medical Toxicology Brody School of Medicine at East Carolina University

Module 8

Long Term Consequences of Pesticide Exposures

Gayle Thomas, MD

Medical Director, NC Farmworker Health Program Associate Professor, Department of Family Medicine UNC School of Medicine

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Credit

Physicians

Accreditation: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Brody School of Medicine at East Carolina University, North Carolina Agromedicine Institute, and Eastern Area Health Education Center. The Brody School of Medicine at East Carolina University is accredited by the ACCME to provide continuing medical education for physicians. Credit: The Brody School of Medicine at East Carolina University designates this enduring material for a maximum of 4.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CME for Physician Assistants

AAPA accepts certificate of participation for educational activities certified for *AMA PRA Category 1 Credit(s)*TM from organizations accredited by ACCME or a recognized state medical society. Physician Assistants may receive a maximum of 4.5 hours of Category 1 credit for completing this program.

Nurses:

4.5 Nursing Contact Hours

Eastern AHEC Department of Nursing & Allied Health is approved as a provider of nursing continuing professional development by the North Carolina Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

Other Professionals

All other participants will receive 4.5 Eastern AHEC Contact Hours.

Registration

Registration is online only at <u>www.easternahec.net</u> and requires a current MyAHEC account.

Fee

There is no fee for this online self-paced course.

Cancellation Policy

Cancellations must be in writing (easternahec@ecu.edu).

Handouts and Evaluations

Handouts will be available online only. Evaluations will be emailed after completion of the course. Once the evaluation has been completed, your certificate will be available.

Americans with Disabilities Act



Individuals requesting accommodation under the Americans with Disabilities Act (ADA) should contact Eastern AHEC easternahec@ ecu.edu or call the Eastern AHEC Help Desk 252.744.5210.

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For more information, contact Ikisha Brothers at 252.335.4399 or brothersi16@ecu.edu.

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