

# PUBLIC HEALTH FOR PHARMACISTS

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NDSU faculty developed this online training opportunity in collaboration with CAPT. James Bresette of the US Public Health Service, Lynette Bradley-Baker of the American Association of Colleges of Pharmacy, and faculty with public health credentials from Concordia Wisconsin University and University of Maryland Eastern Shore.

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North Dakota State University College of Pharmacy, Nursing, and Allied Sciences is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. Attendance at the session and completion of the evaluation form will be required to receive CE credit. An ACPE statement of credit will be mailed upon request. Pharmacy professionals can now obtain CE statements of credit on the CPE Monitor website. Non-pharmacists will receive a noncredit transcript within 4-6 weeks of receipt of all evaluation materials.



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# PUBLIC HEALTH FOR PHARMACISTS

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# PUBLIC HEALTH FOR PHARMACISTS CERTIFICATE MODULES

## OVERVIEW OF PUBLIC HEALTH AND PUBLIC HEALTH SYSTEMS IN THE UNITED STATES

**0.20 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-023-H04-P

**INSTRUCTOR** DONALD WARNE, MD, MPH

- » Define public health.
- » List core functions and essential services of public health.
- » Identify examples of pharmacy in public health practice.

## EPIDEMIOLOGY IN PUBLIC HEALTH I

**0.30 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-052-H04-P

**INSTRUCTOR** DONALD MILLER, PHARM D, FASHP

- » Define epidemiology as it relates to public health and to pharmacy issues.
- » List 3 ways in which pharmacists can use epidemiology in their practice.
- » Describe some of the large databases used for medical surveillance signals and how they are used.
- » Define the terms and calculate examples of incidence, prevalence, risk ratio, odds ratio, absolute risk reduction, relative risk reduction, and number needed to harm.
- » Explain the concept of risk factors for disease, and how they affect public health decisions.

## EPIDEMIOLOGY IN PUBLIC HEALTH II

**0.20 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-025-H04-P

**INSTRUCTOR** DONALD MILLER, PHARM D, FASHP

- » Discuss the principles of epidemiological study design.
- » Distinguish between experimental, cohort, case-control, and cross-sectional studies, and discuss the advantages/disadvantages of each.
- » Point out limitations and biases that occur with each type of study.

## DISEASE PREVENTION AND HEALTH PROMOTION USING SOCIAL AND BEHAVIORAL INTERVENTIONS

**0.20 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-026-H04-P

**INSTRUCTORS** CHRISTIAN ALBANO, MPH, MBA, PHD,

HOAI-AN TRUONG, PHARM D, MPH

- » Define health, risk factors, Determinants of Health and the Action Model to Achieve Healthy People 2020 Overarching Goals.
- » Demonstrate frameworks/models that offer systematic approach for development, implementation, & evaluation of health programs.
- » Explain primary, secondary, and tertiary levels of prevention.
- » Identify examples of contributions of social and behavioral sciences to public health.
- » Illustrate how socioeconomic status, culture, religion and other social/behavioral risk factors affect health.
- » Identify common health behavior theories/models and apply selected health behavior theories or models to plan for the development, implementation, and evaluation of a public health program.
- » Identify pharmacist's functions on the micro and macro levels in public health.
- » Cite at least 3 examples of pharmacist's micro and macro level activities and opportunities.

## LAW, ETHICS, AND POLICY IN PUBLIC HEALTH

**0.30 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-047-H03-P

**INSTRUCTOR** DONALD WARNE, MD, MPH

- » Describe the role of federal law and policy in the provision of public health services.
- » Define Ethics in terms of its impact on public health.
- » Identify examples public health law an policy that impact the role of the pharmacist.

## COMMUNITY ENGAGEMENT

**0.20 CEUS APPLICATION BASED** UPN: 0047-0000-13-048-H04-P

**INSTRUCTOR** MARK STRAND, PHD

- » Describe the Role of Community Engagement in Public Health Interventions.
- » Explain the Practice of Community Engagement as a Health Professional.
- » Describe the Steps to Facilitate a Community Engagement Project.

## ENVIRONMENTAL HEALTH

**0.20 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-049-H05-P

**INSTRUCTOR** CHRISTIAN ALBANO, MPH, MBA, PHD

- » Define environmental health and occupational health.
- » Delineate the Healthy People 2020 goals on environmental health.
- » Identify the environmental factors in the occupational/work-place setting and identify the interventions that can mitigate these factors.
- » Describe the major sources of environmental contaminants and pollutants, how they reach people, and the effect that they have on the community.
- » Apply epidemiological techniques for predicting the scope and magnitude of adverse effects on environmental systems.
- » Demonstrate an understanding of economic, societal, and political conditions as they relate to a specific environmental health problem in an effort to find appropriate solutions and prioritize actions.
- » Describe the risk assessment and management process in environmental health.
- » Identify the formal legislative/regulatory system within which environmental health regulations are developed and enforced.

## HEALTH EMERGENCY PREPAREDNESS AND RESPONSE

**0.20 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-050-H04-P

**INSTRUCTOR** CAROL CWIAK, JD, PHD

- » List a variety of hazards and explain why these hazards increasingly result in emergencies and disasters that affect people and property.
- » Define emergency management and other key terminology related to emergency preparedness and response.
- » Explain the structure created by the Federal Government for response and the functions it focuses on.
- » List the expectations of public health under the National Response Framework ESF 8.
- » Identify the partners that collaborate with the emergency management community to create the framework that keeps communities safe.
- » Explain the role of public health and pharmacists in preparing for hazards and dealing with emergencies and disasters.
- » Discuss key continuity planning steps.
- » Explain why continuity of operations planning is essential for pharmacies and other agencies that serve essential needs of a community.
- » List key areas in which public health agencies and pharmacies can focus their planning efforts.

## CULTURAL PERSPECTIVES IN PROVIDING PUBLIC HEALTH

**0.20 CEUS KNOWLEDGE BASED** UPN: 0047-0000-13-051-H04-P

**INSTRUCTOR** DAVID SCOTT, MPH, PHD

- » Identify the determinants of health that can affect health disparities.
- » Describe the changing demographics in the United States and its association to health disparities.
- » Describe the levels of cultural competence.
- » Discuss steps that can improve the pharmacist's cultural competence.