
**AMERICAN PHARMACISTS ASSOCIATION'S
PHARMACY-BASED IMMUNIZATION DELIVERY**

A CERTIFICATE PROGRAM FOR PHARMACISTS

HOSTED BY: WEST VIRGINIA UNIVERSITY SCHOOL OF PHARMACY

APRIL 28, 2018

HEALTH SCIENCES CENTER, ROOM 2940 A AND B – MORGANTOWN, WV

For questions about this program, please contact:

Michael Kurilla at 304-293-5103/mpkurilla@hsc.wvu.edu, Dr. Ginger Scott at 304-293-5103/vscott@hsc.wvu.edu, or WVUSOPCE@hsc.wvu.edu.



APhA's *Pharmacy-Based Immunization Delivery* certificate training program is based on national educational standards for immunization training from the Centers for Disease Control and Prevention. This practice-based curriculum represents a fusion of science and clinical pharmacy. The program, which emphasizes a health care team approach, seeks to foster the implementation of interventions that will promote disease prevention and public health. The purpose of this certificate training program is to prepare pharmacists with comprehensive knowledge, skills, and resources necessary to provide immunization services to patients across the life span.

The goals of this program are to:

Educate pharmacists about:

- The impact of vaccines on public health.
- Pharmacists' roles in immunization.
- Immunologic principles of vaccine development and immunizations.
- Vaccine-preventable diseases and the vaccines used to prevent them.
- Strategies for improving immunization rates.
- Requirements for pharmacists who provide immunization services.

Prepare pharmacists to:

- Read an immunization schedule and identify appropriate vaccines for individuals across the life span and with special needs.
- Educate patients about the benefits of vaccines and dispel myths about vaccines.
- Safely administer vaccines to patients via subcutaneous, intramuscular, intranasal, and intradermal routes.
- Operate an immunization service in compliance with legal and regulatory standards.
- Partner with immunization stakeholders to promote immunizations and the immunization neighborhood.

Direct pharmacists to resources necessary to:

- Promote public health through immunizations.
- Access regularly updated information about vaccines and their use.
- Effectively communicate with patients and other stakeholders about resources.
- Operate an immunization service in compliance with legal and regulatory standards.

This ACPE activity does not provide a certification in this topic but rather advanced professional training which upon successful completion the learner will be able to download a certificate of achievement.

There are three components to the certificate training program:

- 12 hour (1.2 CEU) self-study modules with case studies and assessment exam
- 8.0 hour (0.80 CEU) live seminar with final exam
- Hands-on assessment of intramuscular and subcutaneous injection technique

Self-Study Modules Description and Learning Objectives

The self-study learning activity is designed to ensure that all participants have an understanding of vaccine-preventable diseases and the role of pharmacists as vaccine advocates and administrators. There are five learning modules that present in-depth information on immunology, practice implementation, and legal and regulatory issues as noted below, with appropriate references to the Centers for Disease Control and Prevention (CDC) resource publication, *Epidemiology and Prevention of Vaccine-Preventable Disease*. The self-study program includes a self-assessment test and real-life case studies that are designed to help reinforce and evaluate participants' understanding of key information and concepts.

Module 1. Pharmacists, Vaccines, and Public Health**At the completion of this activity, participants will be able to:**

- Describe the effects of immunizations on morbidity and mortality rates of vaccine-preventable diseases in the United States.
- Discuss Healthy People 2020 goals for vaccination rates in the United States.
- Explain the expansion of the role of pharmacists as vaccine providers and describe the status of pharmacists' authorization to administer vaccines throughout the United States.
- Describe strategies for pharmacists to advocate for pharmacy-based delivery of vaccines.
- Discuss the role of pharmacists as immunizers in emergency preparedness activities.
- Identify resources that are useful for immunization providers and educators.

Module 2. Overview of Immunology and Vaccine Development**At the completion of this activity, participants will be able to:**

- Identify the differences between active and passive immunity and describe key elements of each process.
- Explain how vaccines elicit an immune response and provide protection from disease.
- Describe the characteristics of and distinctions among live vaccines, inactivated vaccines, polysaccharide vaccines, and recombinant vaccines.
- Discuss the rationale for timing of vaccine administration and intervals between doses, including vaccine-vaccine spacing and vaccine-antibody spacing.
- Describe principles of herd immunity.

Module 3. Vaccine-Preventable Diseases**At the completion of this activity, participants will be able to:**

- Describe the epidemiology, clinical features, and potential complications of diseases that can be prevented with vaccines.
- Identify vaccines available in the U.S. market for each vaccine-preventable disease and describe their features.
- Identify the contraindications and precautions for the use of vaccines available in the United States.
- Use recommendations from the Advisory Committee on Immunization Practices to identify target groups for receipt of each vaccine.

Module 4. Patient Care Considerations for Immunizing Pharmacists

At the completion of this activity, participants will be able to:

- Explain how to apply the pharmacists' patient care process to immunization services.
- Identify patients with immunization needs.
- Given a patient case, select appropriate vaccines using an immunization schedule from the Advisory Committee on Immunization Practices, and identify appropriate timing, doses, and routes of administration.
- Discuss the rationale for timing for vaccine administration and intervals between doses, including vaccine-vaccine spacing and vaccine-antibody spacing.
- Recall recommended patient screening questions for vaccination and identify valid contraindications for vaccinations.
- Educate patients about the benefits of vaccines and address common concerns about vaccines.
- Provide accurate information that addresses common myths about vaccines.
- Describe the roles of the Vaccine Adverse Event Reporting System in managing vaccine safety.
- Educate patients about potential adverse reactions following the receipt of a vaccine and how to manage them.
- Explain appropriate techniques for intramuscular, subcutaneous, intradermal, and intranasal administration of vaccines.
- Describe the signs and symptoms of adverse reactions to vaccines and procedures that pharmacists should follow to manage various adverse reactions.
- Describe appropriate documentation and follow-up after vaccine administration.

Module 5. Operating a Pharmacy-Based Immunization Program

At the completion of this activity, participants will be able to:

- Describe important considerations when deciding which vaccines to offer.
- Describe physical space requirements for a vaccine service.
- Discuss Occupational Safety and Health Administration regulations for the prevention of employee exposure to bloodborne pathogens and needlestick injury at worksites where immunizations are administered.
- Outline principles and procedures for vaccine storage and handling.
- Discuss workflow options for administering vaccines in pharmacy practice.
- Identify marketing strategies that can be used to promote a pharmacy-based immunization service.
- Explain potential options for obtaining reimbursement and compensation for vaccines and vaccine administration.
- Describe liability issues related to vaccine administration, including the Vaccine Injury Compensation Program.

Live Training Seminar Description and Learning Objectives

The second part of the certificate training program is an active learning seminar focusing on pharmacy practice implementation. The live training seminar is based on the experience of practitioners involved in immunization advocacy and administration. The training seminar reinforces and expands on the self-study program and addresses areas such as immunization needs, legal and regulatory issues, and injection-technique training. Participants will be expected to practice giving intramuscular and subcutaneous injections on each other.

After completing the live seminar, participants will be able to:

- Describe strategies for increasing immunization rates, including physician collaborations, community level activities, and immunization coalition activities.
- Describe pharmacy operations and a process for administering vaccines in various pharmacy practice settings.
- Evaluate patient histories and make patient-specific recommendations based on the appropriate immunization schedule.
- Demonstrate effective strategies for communicating with patients who have concerns about vaccines.
- Describe current evidence regarding vaccine safety.
- Recognize the signs and symptoms of adverse reactions that can occur after vaccination.

- Describe procedures for management of patients with adverse reactions to vaccination that constitute an emergency.
- List the steps for administering currently available intranasal and intradermal vaccines
- Demonstrate appropriate intramuscular and subcutaneous injection techniques for adult immunization

All participants are strongly encouraged to obtain CPR or BCLS certification. *However, certification is not a prerequisite of the program.* A Certificate of Achievement is awarded to participants who successfully complete all program requirements. The Certificate of Achievement is invalid, however, without written proof of current CPR or BCLS certification. WV Code Section 30-5-30 requires either American Red Cross or American Heart Association basic life-support training certification to be an immunizing pharmacist in the state of WV.

Seminar Agenda

- **7:30am** – Check-in and Continental Breakfast
- **8:00am** – Welcome, Introductions and Acknowledgements
Clinical Review
- **10:00am** – **Morning Break**
- **10:15am** – Managing a Pharmacy-Based Immunization Program
Strategies for Increasing Immunization Rates
- **12:00pm** – **Lunch**
- **1:00pm** – Applying ACIP Immunization Schedules
Communicating with Patients
- **2:15pm** – **Afternoon Break**
Vaccine Administration Technique
Transitional/Summary Remarks
- **4:00pm** – Skills Assessment

Faculty

Ashleigh L. Barrickman, PharmD, Director of Skills Development, Clinical Assistant Professor
West Virginia University School of Pharmacy, Morgantown, WV

Julie-Rumbach-Autin, RPh, MBA, CDE, Formulary Manager, Louis A. Johnson VA Hospital, Clarksburg, WV

Accreditation Information



The American Pharmacists Association is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. APhA's Pharmacy-Based Immunization Delivery certificate training program is approved for a total of 20.0 contact hours of continuing pharmacy education (CPE) credit (2.0 CEUs). The ACPE Universal Activity Numbers (UAN) for this activity are listed below.

- Successful completion of the self-study component involves passing the self-study assessment with a grade of 70% or higher and will result in 12 contact hours of CPE credit (1.2 CEUs). *ACPE UAN: 0202-0000-17-160-H06-P / 0202-9999-17-160-H06-P*
- Successful completion of the live seminar component involves attending the full live seminar, successfully completing the injection technique assessment, and completing the online assessment and evaluation. Successful completion of this component will result in 8 contact hours of CPE credit (0.8 CEU). *ACPE UAN: 0202-0000-17-161-L06-P / 0202-9999-17-161-L06-P*

To obtain 20.0 contact hours of CPE credit (2.0 CEUs) for *APhA's Pharmacy-Based Immunization Delivery* certificate training program, the learner must complete all components listed above, and CLAIM credit for each component. Participants will need to have a valid APhA (pharmacist.com) username and password, as well as a CPE Monitor account to claim credit. After credit has been claimed, please visit **CPE monitor** for your transcript.

The Certificate of Achievement will be available online upon successful completion of the necessary activity requirements on the participant's My Training page on **www.pharmacist.com**.

APhA continuing pharmacy education policy provides you with two opportunities to successfully complete the continuing pharmacy education assessment. Please note that you will not be permitted to submit the assessment a third time. The current policy of the APhA Education Department is not to release the correct answers to any of our CPE tests. This policy is intended to maintain the integrity of the CPE activity and the assessment.

Release Date: July 15, 2017

Expiration Date: July 15, 2020 - **PLEASE NOTE: NO Home Study credit granted after this date**; Live Credit can only be granted within 60 days from the day of the seminar attended.

Pharmacy-Based Immunization Delivery: A Certificate Training Program for Pharmacists was developed by the American Pharmacists Association.

Technology Requirements - Computer and Internet access is required to complete this activity. These technology requirements and suggestions will allow you a better online learning experience. In order to participate in any APhA online learning activity, participants must have access to a computer with these minimum system requirements:

Hardware Requirements

- 128MB of RAM
- 16-bit video card capable of 1024x768 screen resolution or better
- Speakers or headphones, if accessing content with audio

Software Requirements

- **Internet Browsers**
 - IE 9 and greater
 - Microsoft Edge 12 and greater
 - Firefox 4 and greater*
 - Google Chrome*
 - Safari 5 and greater

* These browsers automatically update themselves behind the scenes to the most current version.

- **Operating Systems**
 - Windows XP
 - Windows 7 and 8
 - Windows Vista
 - Mac OSX
 - iOS devices (tablets and phones): Please note iPads do not currently allow Adobe Support to be downloaded onto the device.
 - Android devices (tablets and phones)
 - Windows 10

Program Costs

Each seminar is limited to a maximum of 60 people. Registration will be taken on a first-come, first-served basis. Participant cost will be \$400 per pharmacist and \$300 per student. This amount includes the cost of self-study and live seminar materials, continuing pharmacy education credit, continental breakfast, lunch, and breaks. Lodging, travel, and dinner expenses will be the responsibility of the participant. Cancellations received in writing at least 7 days prior to each program (**Michael Kurilla at 304-293-5103/mpkurilla@hsc.wvu.edu, Dr. Ginger Scott at 304-293-5103/vscott@hsc.wvu.edu, or WVUSOPCE@hsc.wvu.edu**) will be charged a \$150 cancellation fee then refunded the remaining registration fee. We reserve the right to cancel the entire program. In the event of a conference cancellation, each participant will be notified via phone and a full tuition refund will be made.

Location, Directions, Parking

Located at the intersection of I-79 and I-68, WVU is approximately 70 miles south of Pittsburgh and 200 miles northwest of Washington DC. It is accessible by the Morgantown Municipal Airport (MGW) or the Pittsburgh International Airport (PIT).

From I-79, take exit 155 (West Virginia University and Star City) and turn towards Morgantown. At the 2nd traffic light, bear slightly to the right onto US 19 South and proceed to the 2nd traffic light (WVU Coliseum - large domed concrete building on the right). Turn left onto Patteson Drive. Just before the 3rd traffic light, turn right onto Elmer Prince Drive. Move into the left lane and follow the signs to Health Sciences Center or the Emergency Room (the road will curve into a turnabout and follow the arrows uphill to McQuain Pavilion).

Pass the small guard booth and continue into the parking lots (parking is not restricted since this is a weekend event). Enter the Health Sciences Center North through the Family Medicine Entrance. There will be WVU School of Pharmacy signs outside and inside directing you to the program.

Pharmacy-Based Immunization Delivery Certificate Program Registration Form

April 28, 2018 – Robert C Byrd Health Sciences Center North, Room 2940 A and B – Morgantown, WV

Each seminar is limited to a maximum of 60 people. Registrations will be taken on a first-come, first-served basis. Registration is required at least seven days prior to each program.

Preferred registration and payment is online in our continuing education management system at <https://pharmacyce.wvu.edu/user/login> with a Visa, MasterCard, American Express, or Discover Card.

You can fax registration form to 304-293-2529. For registration and payment assistance please contact **Michael Kurilla at 304-293-5103/mpkurilla@hsc.wvu.edu**, **Dr. Ginger Scott at 304-293-5103/vscott@hsc.wvu.edu**, or **WVUSOPCE@hsc.wvu.edu**.

Please print or type: (One form per pharmacist)

First name _____ MI _____ Last name _____
(Please note both given and preferred names if different.)

Home Address _____

City _____ State _____ Zip _____

Place of Employment _____

Work Address _____

City _____ State _____ Zip _____

Home Phone _____ Work Phone _____ Fax Number _____

E-mail _____

Please list any special dietary needs (ex. vegetarian, etc.): _____

Program Fee (check one)

☐ Student
☐ Pharmacist

Please circle

\$300
\$400

Self-study materials will be available online at least 30 days prior to program date. Information to access the online self-study materials will be *emailed* to participants. If you have not received an email with this information, please contact the WVU School of Pharmacy at 304-293-5103/304-293-1553. Cancellations received in writing at least 7 days prior to the program (fax 304-293-2529 or e-mail mpkurilla@hsc.wvu.edu) will be charged a \$150 cancellation fee then refunded the remaining registration fee. We reserve the right to cancel the program. In the event of a conference cancellation, registrants will be notified by phone and a full registration refund will be made. Questions regarding the program should be directed to the WVU School of Pharmacy Office of Continuing Education to **Michael Kurilla at 304-293-5103/mpkurilla@hsc.wvu.edu**, **Dr. Ginger Scott at 304-293-5103/vscott@hsc.wvu.edu**, or **WVUSOPCE@hsc.wvu.edu**. Visit us on the web at <http://pharmacy.hsc.wvu.edu/CE/Home>.