Peak flow and spirometry readings offer important clinical information for pharmacists caring for patients with COPD and Asthma. When taken in the Asthma and COPD Clinical Pharmacist Certificate Program, this course will provide pharmacists with an appreciation of the use of peak flow and spirometry test results when monitoring drug therapy. In this course, pharmacists will observe both spirometry and peak flow testing, review pulmonary function test results, and be prepared to teach patients how to monitor peak flow at home. At the conclusion of the module, learners will be able to recognize normal spirometry and peak flow readings, instruct patients on proper use of hand-held peak flow meters, and coach patients and caregivers to better monitor peak flow rate at home. This program is offered asynchronously through the CIPS Knowledge Enterprise at: www.pharmacists4knowledge.org

Learning Objectives
After completing the course, pharmacists will be able to:

1. Accurately measure and interpret peak expiratory flow rate in patients with asthma;
2. Counsel patients on correct use of hand-held peak flow meters, including process for home peak flow rate monitoring;
3. Identify normal spirometry results and recognize common basic abnormalities encountered in asthma and COPD;
4. Explain when and how pulse oximetry is used and accurately interpret results;
5. Accurately triage patients to medical care based on objective findings; and
6. Appreciate other pulmonary functions tests commonly encountered in patients with asthma and COPD.
Successful Completion: Learners must complete all practice based activity components including the audiovisual presentations, post-test, and Activity Evaluation. Participants must receive a score of at least 70% on the post-test in order to receive credit. The post-test may be taken up to three (3) times. A link to the Activity Evaluation will be available on the confirmation once a learner has successfully completed the post-test. Statements of CE Credit will be available electronically via CPE Monitor within sixty (60) days of completion of the activity.

Conflict of Interest Disclosure: In accordance with the University of Maryland School of Pharmacy Policy on Conflicts of Interest, faculty certify that they had no potential conflicts of interest while developing the materials for this program.

Use of Trade Names: The trade names of the drugs and delivery systems in this module are for the purpose of product identification only. The developers of this activity do not intend to imply endorsement for any commercial products discussed.

Resources Disclosure: Resources are provided for the educational benefit of our learners. These materials are not for distribution.

Technology Requirements: To access the course materials, you must use a computer with an internet connection and an online browser that supports the Adobe® Flash® Player version 10. Mozilla® Firefox, Windows Internet Explorer 9 or higher, or Apple® Safari® for desktop are acceptable browsers.

Privacy and Confidentiality: The Center for Innovative Pharmacy Solutions (CIPS) is committed to protect the privacy of our learners; CIPS complies with federal regulations regarding privacy and confidentiality. Email addresses may be used periodically to update learners on course offerings and new learning resources. Certain personal information will be provided to the professional certifying entity in order to issue Certificates of Credit. No personal information will be sold to third parties. Your Activity Evaluation responses will be analyzed in aggregate.

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Refund Policy
- A refund, less a $15 administration fee, will be made if cancellations are made within 15 days. Other restrictions may apply.
- Refund requests must be submitted in writing to cips@rx.umaryland.edu.
- Refunds are not available in the following circumstances:
  - A learner has logged into a course or series;
  - Has launched course materials;
  - Course materials have been shipped; or
  - Request is made after 15 days of the ordering date.
- Course registrations are non-transferrable.

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