



## **DIABETES CERTIFICATE PROGRAM VIA THE INTERNET**

**Available February 10, 2006**

ACPE # 046-999-05-069-C01      Certificate # 046-025  
(36.0 Contact Hours)

Original submission date: June 15, 2005

Event/Session# 15878-40492

Co-sponsored by Greensboro AHEC and Northwest AHEC Pharmacy Education Sections and  
UNC-CH School of Pharmacy

Approved by the North Carolina Center for Pharmaceutical Care

**COURSE DESCRIPTION:** This program is designed to provide an educational opportunity for pharmacists in the area of diabetes management, focusing on interpretation and implementation of current diabetes guidelines. Participants will be exposed to practical issues of patient interviewing, physical assessment, pharmacotherapy, documentation of interventions, and billing. As a result of this comprehensive training program, pharmacists will be able to actively participate in the care of patients with diabetes. A total of 6 patient case work-ups will be required for benchmarking against national guidelines. The course is designed for the participant to learn from Internet-based didactic modules, preceded by self-study readings and directed-reading test questions. The participant will use the Internet to review didactic modules and will have to answer exam questions from each module (Part A of the certificate program). Once the participant completes the Internet-based didactic modules, he/she will have to attend a skills lab (live program) and two case presentation sessions (live programs), plus prepare and submit a practice/business implementation plan (Part B of the certificate program). **No partial credit will be given if the participant does not complete the entire program. The certificate program must be completed by 6/1/06.**

**COST OF PROGRAM:**      **\$350.00 for Pharmacists**  
   **\$100.00 for Pharmacy Residents**  
   **(No Refunds)**

Greensboro AHEC will be responsible for documentation that the participant has 1) passed the directed-reading test questions, 2) completed the Internet didactic modules, 3) passed the case-based exam for each module, and 4) submitted acceptable patient case write-ups and practice/business implementation plan. Greensboro AHEC will maintain all the records for the certificate program.

### **MINIMUM COMPUTER SYSTEM REQUIREMENTS:**

- Pentium processor with 64mg RAM memory
- Modem connection speeds of 56K
- 100 MB hard drive space for course queuing
- Internet browser (Internet Explorer 5.0+ preferred – some features can not be utilized in a Netscape browser)
- Windows Media Player 6.0+

- Adobe Acrobat Reader
- Sound card

**TARGET AUDIENCE:** Pharmacists and Pharmacy Residents desiring a diabetes disease management practice and who have direct access to patients and medical records or are willing to travel to a collaborative practice where these opportunities would be provided.

**GOAL:** : The goal of the program is to increase the pharmacist's knowledge of diabetes management using current national guidelines; to assist in developing diabetes management skills that the pharmacist can incorporate into practice; and to expose pharmacist to practical issues of patient interviewing, physical assessment, pharmacotherapy, documentation of interventions and outcomes, and billing.

**OBJECTIVES:** Upon completion of this program, participants should be able to:

1. Apply current ADA Diabetes Guidelines and clinical trials to the management of patients with diabetes
2. Describe the pathophysiology of diabetes
3. Select, recommend and monitor drug therapy
4. Educate patients on proper medication administration and monitoring technique
5. Apply skills in physical assessment and patient interviewing
6. Develop a systematic approach to documentation and communication of pharmaceutical care to other health professionals and collaborate with them in the care of patients with diabetes
7. Identify and track important disease, cost and quality of life outcomes in order to support reimbursement for clinical services
8. Prepare a business plan and implement a diabetes management service within their practice setting.

## **PART A**

### **1. Self Study: (10 hours)**

Participants will be required to complete a reading assignment and a list of directed-reading test questions, which they will be able to complete on the Internet . The passing score will be 80%. If participants score less than 80%, a re-test will be given. The participants will have to pass the exam before being able to go through the Internet modules. This should prepare the participants for active learning in the subsequent parts of the certificate program. Participants will be asked to verify the number of hours spent in self-study.

### **2. Internet-Based Didactic Modules (8 hours)**

1.0 hour	Diabetes Pathogenesis, Diagnosis, and Monitoring
1.0 hour	ADA Diabetes Guidelines
1.0 hour	Diabetes and HTN and Hyperlipidemia
1.5 hours	Evidence-based therapy
1.5 hours	Review of Diabetes Pharmacotherapy
1.0 hour	Nutrition and Exercise
1.0 hour	Case Studies

### **3. Examination (1 hour)**

A case-based examination will be administered on the Internet following the didactic modules. The exam will blend content from the didactic modules with the appropriate section from the national guidelines. Participants will be required to obtain a passing score of greater than or equal to 80% on the case-based, multiple-choice exams. If participants score less than 80%, the participant will not be able to continue with the following didactic modules. They will be able to review the didactic module and re-take the exam until they have received a score of 80% or better on the individual didactic module exam.

**Credit for completing the didactic sections of the Diabetes Certificate Program must be obtained from Greensboro AHEC before the skills lab and case presentations are started.**

**Skills Lab and the case presentations sessions will need to be scheduled with Jennifer Epperley at Greensboro AHEC. Please contact her at (336) 832-7570 or [jennifer.epperley@mosescone.com](mailto:jennifer.epperley@mosescone.com)**

## **PART B**

### **1. Skills Lab: (3 hours)**

Participants will learn physical assessment and laboratory monitoring techniques, proper documentation and communication skills with other health care providers. Templates for case presentations and a business/practice implementation plan will also be discussed. Participants needing assistance locating cases for work-up should identify themselves to faculty at this session.

### **2. Patient Work-Ups And Implementation Plan: (8 hours)**

This represents time for the participant to review medical records, interview and assess patients, write up their cases, and prepare a business/practice implementation plan. Participants must complete and submit six patient cases for benchmarking using the appropriate format. Two weeks before each of the case discussion sessions, three cases must be submitted to the Greensboro AHEC. The faculty will select two cases from each participant, one to be presented at each of the two three-hour case discussion sessions. The business/practice implementation plan for providing pharmaceutical care in the participant's practice site will be submitted at the final case discussion session. Participants will be asked to document the time spent to complete these activities.

### **3. Case Discussion Sessions: (2 sessions, 3 hours each = 6 hours; max 12 persons/session)**

Must attend 2 sessions (3 hour sessions). Participants will be notified of their cases for presentation and must provide a 10-minute overview/summary of the selected case at each session, illustrating important aspects of care. There will be five minutes for questions after each case presentation. The faculty will direct interactive sessions in order to gain participant feedback and understanding for presented concepts.

**BENCHMARKING:** Benchmarking or grading of the cases will be done through Greensboro AHEC using a benchmarking committee. The committee will consist of pharmacists throughout North Carolina who are experts in the area in Diabetes Management. The six patient cases will need to be turned into Greensboro AHEC two weeks prior to the case presentation sessions. The patient cases will be mailed to **Greensboro AHEC, Attn: Pharmacy Department, 1200 N. Elm Street, Greensboro, NC 27401.**

**ALL CERTIFICATE PROGRAM COMPONENTS MUST BE COMPLETED BY JUNE 1, 2006**

## **EVALUATION PROCESS:**

Participants must:

- Score at least 80% on the directed-reading test
- Complete the didactic modules via the Internet
- Score at least 80% on didactic module case-based examination
- Attend the didactic and skills sessions
- Submit six patient case work-ups and a practice/business implementation plan for providing pharmaceutical care
- Participate and present one case work-up at each of two case discussion sessions
- Score at least 80% on the benchmarking of each case submission based on national guidelines

**FACULTY:**

Cathey Miller, Pharm.D., CPP  
Medication Management, LLC  
Greensboro, NC

Bryan Bray, Pharm.D., CPP  
Medication Management, LLC  
Greensboro, NC

Dawn Pettus, Pharm.D.  
Drug Therapy Management, Inc.  
Greensboro AHEC  
Greensboro, NC

Pete Koval, Pharm.D., BCPS  
Moses Cone Family Practice  
Greensboro AHEC  
Greensboro, NC  
Hannah Harvey, RN  
Greensboro, N.C.

**CONTINUING EDUCATION CREDIT:**

The School of Pharmacy of The University of North Carolina at Chapel Hill is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. This program, ACPE # 046-999-05-069-C01 (Certificate program # 046-025) (original submission date: 6/15/05) will provide 36.0 contact hours of CE credit. To receive CE credit, participants must complete the directed-reading test questions, the Internet didactic modules and the associated post-test, skills lab, and case presentation sessions, and submit six patient case work-ups and the business/practice implementation plan for faculty review. Statements of CE credit and certificates suitable for framing will be mailed upon completion and evaluation of the program. Call Greensboro AHEC Pharmacy Service at 336-832-7570 with any questions. **No partial CE credit will be given.**

Certificates will be active for 1 year after completion of the entire program. Renewal of the certificate will be required on a yearly basis. Renewal of the certificate will include submitting 6 cases for review, a 2-hour didactic session and participation in one case discussion session, presenting one of the six cases.

**REFUND POLICY:**

No refunds will be given

**AMERICANS WITH DISABILITIES ACT & EQUAL OPPORTUNITY STATEMENT:**

The University of North Carolina at Chapel Hill and Greensboro AHEC wish to ensure that no individual with a disability is excluded, segregated or otherwise treated differently than other individuals because of the absence of auxiliary aids and services. If you need any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to attend this program, please call Greensboro AHEC Customer Service at 336-832-8025 at least 3 weeks prior to the program to allow time for arranging any auxiliary aids needed.

The University of North Carolina at Chapel Hill and Greensboro AHEC are committed to equality of educational opportunity and do not discriminate against applicants, students, or employees based on race, color, national origin, religion, sex, age, or veteran status or disability.

**PROGRAM COORDINATOR:**

Dawn Pettus, Pharm.D., CPP  
Assistant Director of Pharmacy Education Services, Greensboro AHEC  
Clinical Assistant Professor, UNC-CH School of Pharmacy

**EDUCATIONAL GRANT SUPPORT:**

Educational grants are being sought for partial financial support of this certificate program.

**FOR MORE INFORMATION OR TO REGISTER FOR THIS COURSE:**

Contact the Greensboro AHEC at (336) 832-8025 - You may also view and register for classes online at:<http://www.aheconnect.com>