



National Kidney  
Foundation®

30 East 33rd Street  
New York, NY 10016  
800.622.9010  
[www.kidney.org](http://www.kidney.org)

Nonprofit  
US Postage Paid  
National  
Kidney  
Foundation



## Free Interactive Case-Based CME/CE Learning Activity

*A Case-Based Approach to Managing  
Patients with Chronic Kidney Disease –  
Mineral and Bone Disorder:  
A Focus on Hyperphosphatemia*

© 2011 National Kidney Foundation, Inc. All rights reserved. 02-10-4370\_JBB

# A Case-Based Approach to Managing Patients with Chronic Kidney Disease – Mineral and Bone Disorder:

## A Focus on Hyperphosphatemia

Accredited By



Web-based Interactive  
Test-and-Teach CME/CE Activity

Release Date: September 26, 2011

Expiration Date: September 25, 2013

Supported by educational grants from



## TARGET AUDIENCE

- Physicians
- Physician assistants
- Nurses
- Dialysis technicians
- Nurse practitioners
- Dietitians
- Pharmacists

## OVERVIEW

The focus of this program is on more effective management of chronic kidney disease—mineral and bone disorders (CKD-MBD) through early evaluation, ongoing laboratory testing of pertinent biochemical markers, and dietary and pharmacologic interventions. A realistic clinical scenario will provide an opportunity to practice evidence-based clinical decision-making by using clinical practice guidelines on the management of CKD-MBD.

## LEARNING OBJECTIVES

Upon completion of this activity, you will be able to:

- Identify CKD patients with early MBD to facilitate timely evaluation and treatment strategies
- Describe the association between hyperphosphatemia and vascular calcification, and the interventions that can be used to control phosphate levels
- Use CKD staging, signs and symptoms of MBD, and side-effect profiles to individualize phosphate binding therapy for patients with hyperphosphatemia
- Recognize patients for whom doses of calcium-based phosphate binders should be restricted to minimize arterial calcification and associated complications
- Recognize an appropriate regimen for the management of osteoporosis in patients with CKD-MBD to help reduce the risk of bone fractures in this patient population

## TOPICS

- CKD Evaluation and Staging
- CKD-MBD Evaluation and Monitoring
- Management of Hyperphosphatemia
- Osteoporosis Versus Renal Osteodystrophy
- Osteoporosis

## FACULTY

### **Kamyar Kalantar-Zadeh, MD, MPH, PhD**

Director of Dialysis Expansion and Epidemiology  
UCLA Schools of Medicine and Public Health  
Torrance, CA

### **Jane Davis, MSN, DNP**

Nurse Practitioner  
University of Alabama at Birmingham  
Birmingham, AL

### **Linda McCann, BS, RD, CSR**

Senior Director of Quality  
Satellite Healthcare, Inc.  
Mountain View, CA

## ACCREDITATION

### **Physician**

The National Kidney Foundation is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The National Kidney Foundation designates this enduring material for a maximum of 1.0 *AMA PRA Category 1 Credit*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This Enduring Material activity, “A Case-Based Approach to Managing Patients with Chronic Kidney Disease-Mineral and Bone Disorder: A Focus on Hyperphosphatemia,” has been reviewed and is acceptable for up to 1 Prescribed credit(s) by the American Academy of Family Physicians. AAFP accreditation began September 26, 2011. Term of approval is for one year from this date with the option of yearly renewal. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### **Physician Assistant**

AAPA accepts certificates of participation for educational activities certified for Category I credit from AOACCME, Prescribed credit from AAFP, and *AMA PRA Category 1 Credit*<sup>™</sup> from organizations accredited by ACCME or a recognized state medical society. Physician assistants may receive a maximum of 1.0 hour of Category I credit for completing this program.

### **Nurse**

The National Kidney Foundation is an approved provider of continuing nursing education by the New York State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

It has been assigned Provider code 7QPLGU-PRV-09.

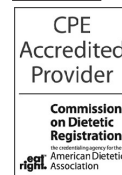
1.0 contact hour will be awarded.

### **Nurse Practitioner**

This program is approved for 1.0 contact hour of continuing education (which includes 0.3 hour of pharmacology) by the American Academy of Nurse Practitioners. Program ID 1109275.

This program was planned in accordance with AANP CE Standards and Policies and AANP Commercial Support Standards.

### **Dietitian**



The National Kidney Foundation is a Continuing Professional Education (CPE) Accredited Provider with the Commission on Dietetic Registration (CDR). Registered Dietitians (RDs) and Dietetic Technicians, Registered (DTRs) will receive 1.0 continuing professional education unit (CPEU) for completion of this program/material.

### **Pharmacist**



The University of Illinois at Chicago College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of pharmacy continuing education. Completion of the entire knowledge-based activity, post-test questions, and evaluation are prerequisites for receiving a statement of continuing pharmacy education credit for 1.0 contact hour (0.1 CEU). You will receive your statement of credit immediately upon successful completion of the CPE activity. This activity has been assigned ACPE Universal Activity Number 016-999-11-137-H01-P.

## METHOD OF PARTICIPATION

This CME/CE activity is available as an on-demand webcast at [www.kidney.org/cme](http://www.kidney.org/cme). To receive a certificate of completion, participants will read a self-directed manuscript presentation with accompanying slides and interactive questions and complete a post-test and program evaluation. The estimated time for completion is 1.0 hour. To receive *AMA PRA Category 1 Credits*<sup>™</sup>, participants must receive a minimum score of 70% on the post-test.

## DECLARATION OF DISCLOSURE

It is the policy of the National Kidney Foundation (NKF) to ensure balance, independence, objectivity, and scientific rigor in all CME/CE activities. Any individual who has control over CME/CE content is required to disclose to learners prior to the activity any relevant financial relationship(s) they may have with commercial interests supporting this activity or whose products or devices are discussed in this activity. If, on the basis of information disclosed, a perceived conflict exists, resolution will be achieved based on NKF's Disclosure and Conflict of Interest Policy.

## UNLABELED/ INVESTIGATIONAL USE

During their presentations, faculty may discuss an unlabeled use or an investigational use not approved for a commercial product. Each faculty member is required to disclose this information to the audience when referring to an unlabeled or investigational use.

## DISCLAIMER

The faculty, National Kidney Foundation, Abbott, Amgen, and Shire do not recommend the use of any pharmaceutical, diagnostic test, or device outside of the labeled indications as approved by the FDA. Please refer to the official prescribing information for each product for approved indications, contraindications, and warnings.

## REGISTRATION

View this free CME/CE activity at the National Kidney Foundation website, [www.kidney.org/CME](http://www.kidney.org/CME). For more information, please call NKF at 800.622.9010, or visit our website at [www.kidney.org](http://www.kidney.org).