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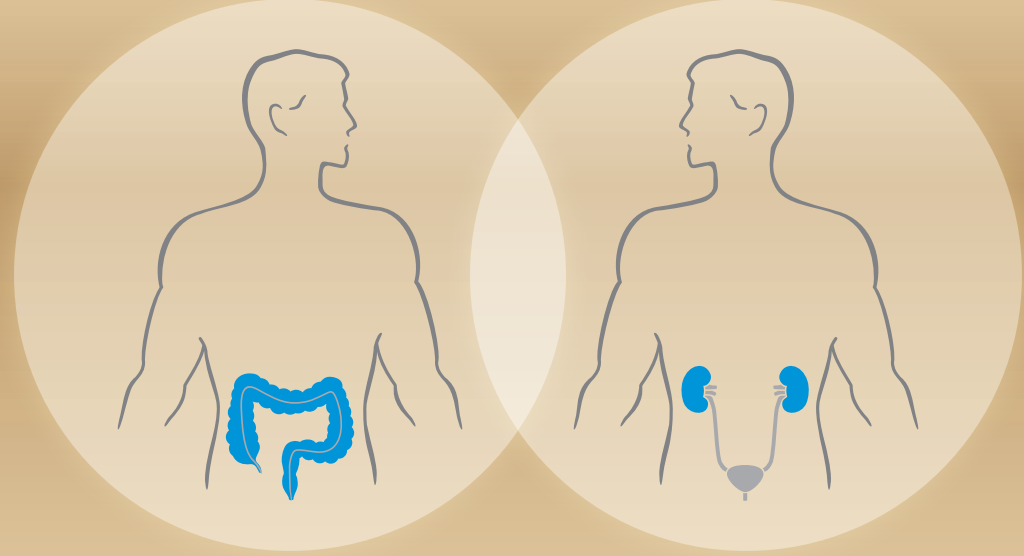
A FREE Web-based, Interactive Ask and Answer CME/CE Activity

**Managing Chronic Kidney Disease:
New and Emerging Concepts in
Reducing Risk for CKD Progression**

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A FREE Web-based, Interactive Ask and Answer CME/CE Activity

Managing Chronic Kidney Disease: New and Emerging Concepts in Reducing Risk for CKD Progression



The Gut and Kidney Connection: Uremic Toxins of GI Origin

Release Date: November 6, 2011 · Expiration Date: November 5, 2013

Accredited by



Supported by an educational grant from



Mitsubishi Tanabe Pharma Corporation

TARGET AUDIENCE

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

OVERVIEW

This CME/CE activity addresses professional awareness and education needs related to chronic kidney disease (CKD) and the significance of uremic toxins of gastrointestinal (GI) origin. It will also cover the impact of protein-bound uremic retention solutes on disease progression, as well as new and emerging therapies with the potential to improve patient outcomes.

LEARNING OBJECTIVES

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

- Discriminate between the impact of uremic toxins of GI origin, such as indoxyl sulfate and p-cresylsulfate, and other uremic retention solutes for your patients with CKD, so that the risk of adverse outcomes may be improved.
- Identify mechanisms, compounding effects, and subsequent adverse outcomes related to the inadequate clearance of protein-bound uremic retention solutes in your patients with CKD that may contribute to CKD progression.
- In light of recent and emerging data, appraise the use of novel therapies as effective strategies to reduce levels of protein-bound uremic toxins to reduce risk for kidney damage.

TOPICS

- Introduction
- Presentations
 - Pathophysiology and association of uremic retention solutes with adverse outcomes of CKD, including CKD progression
 - Uremic retention solutes

- Factors affecting uremic solute concentration and toxicity
- Impact on biochemical and physiologic function and consequences
- Strategies for managing uremic syndrome

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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 Credits™*. 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™* 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 Practitioner

This program has been approved for 1.0 contact hour of continuing education (which includes 0.15 hour of pharmacology) by the American Academy of Nurse Practitioners. Program ID 1108257.

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

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.

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 0016-999-11-149-H01-P.

METHOD OF PARTICIPATION

Learners will review the materials on accreditation information, target audience, learning objectives, and disclosure information; read the entire self-study activity consisting of manuscript and slides; and complete the post-test and evaluation to successfully earn credit. The estimated time for completion is 1.0 hour. To receive *AMA PRA Category 1 Credit™*, 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 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, and Mitsubishi Tanabe Pharma 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. For more information, please call NKF at 800.622.9010, or visit our website at www.kidney.org.