

# MANAGING PATIENTS TAKING WARFARIN

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### Managing Patients Taking Warfarin

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An essential seminar for Pharmacists, Primary Care Providers and other clinical professionals caring for patients taking anticoagulation medication

# Managing Patients Taking Warfarin

## From the Fundamentals to the Future of Anticoagulation

- ★ Develop a better understanding of warfarin's past and present states in order to address patient concerns about its safety and effectiveness
- ★ Utilize analytical tools to skillfully monitor patient anticoagulation
- ★ Identify practical strategies for managing drug and food interactions
- ★ Evaluate legal actions involving warfarin and learn how to avoid the conditions that contributed to them
- ★ Discuss new medications under development to replace warfarin

Continuing education available for Nurses, Pharmacists and Nurse Practitioners. Please see inside for details.



www.CrossCountryEducation.com

- Duluth, MN - July 25**  
**St. Cloud, MN - July 26**  
**Minneapolis, MN - July 27**  
**Sioux Falls, SD - August 15**  
**Omaha, NE - August 16**  
**Des Moines, IA - August 17**

An essential seminar for Pharmacists, Primary Care Providers and other clinical professionals caring for patients taking anticoagulation medication

# Managing Patients Taking Warfarin

## From the Fundamentals to the Future of Anticoagulation

### What You Need to Know for Your Patients Taking Anticoagulation Medication

Warfarin has been around for a very long time. It was given to President Eisenhower in 1955, but it was not well managed until about 1990. Despite its long history, warfarin still generates about one article per day published in journals indexed by the National Library of Medicine and is reputedly the drug that causes more legal actions than any other. The concerns surrounding warfarin stem from its use as rat poison, involvement in malpractice cases and incidence of interactions with other commonly prescribed drugs and foods. Nonetheless, it is affordable, highly effective in preventing and treating blood clotting and widely used. Being able to skillfully manage warfarin therapy is essential for the health and safety of patients and can increase a person's value to the health care team.

Participants in this one-day seminar will gain practical skills and knowledge to effectively manage patients taking warfarin. You will be prepared to overcome the concerns and misconceptions that create fear and resistance in patients. You will also learn how to manage interactions with common drugs and foods and apply problem-solving strategies in the monitoring of warfarin dosage. Several legal actions will be discussed with the emphasis on how health care professionals can avoid the conditions that contributed to them. Participants will learn about the latest developments in agents designed to create wider choices in the anticoagulation field. You will be able to relate this valuable information to clinical practice the very next day.

### Course Director

**AL LODWICK, RPh, MA, CACP**, is a Registered Pharmacist and Certified Anticoagulation Care Provider with over 20 years experience who has monitored anticoagulation therapy for over 50,000 patient visits. He currently serves as Manager of Clinical Pharmacy Support Services at St. Mary-Corwin Medical Center in Pueblo, Colorado. Since 1998, Mr. Lodwick has been conducting educational programs on warfarin for both clinicians and patients, and in 2004 he founded the Warfarin Institute of America to further the world's understanding and safe use and monitoring of this medication. He has served as consultant and expert witness in numerous legal cases involving warfarin, has published two books pertaining to warfarin, *Role Playing for Anticoagulation Training: Thirty-two Case Studies* and *Warfarin: Rat Poison to Wonder Drug*, and has written 11 articles which were published in various pharmacy and medical journals.

Al Lodwick earned a B.S. in Pharmacy from the University of Iowa and a master's degree in Communications from Goddard College. In 2006, he was named a Distinguished Coloradan by the faculty of the University of Colorado School of Pharmacy and, in 1998, the clinic he directed received the Abbott Hospital Pharmacy Quality Award. Over the last several years, Mr. Lodwick has brought approximately \$475,000 in grants, contracts and awards to the hospitals where he has been employed. He is a member of the American Society of Health-System Pharmacists and past president of the Southern Colorado Society of Health-System Pharmacists. You may learn more about Mr. Lodwick at the Warfarin Institute of America website, [www.warfarinfo.com](http://www.warfarinfo.com).

### Who Should Attend

- ➔ Pharmacists
- ➔ Nurse Practitioners
- ➔ Physician Assistants
- ➔ Clinical Nurse Specialists
- ➔ Pharmacy Technicians
- ➔ Nurses
- ➔ Physicians
- ➔ Clinical Managers
- ➔ Clinical Directors



# What You Will Learn

- Outline the history of warfarin and use this knowledge to address patients' fears and concerns
- Utilize formulation tools to effectively monitor dosage for anticoagulation patients
- Identify the major drug and food interactions with warfarin and learn how to manage both the onset and offset of interactions
- Evaluate the conditions leading to selected legal actions and determine how to avoid similar incidents
- Differentiate between fact and fiction for patients who have common misconceptions about warfarin while providing sound clinical guidance in the use of the medication
- Analyze current debates surrounding anticoagulation therapy and be able to formulate your own style of managing these
- Discuss the latest developments in medications designed to replace warfarin

# Audio Products

If you would like to order the audio/manual package for this seminar, it is available for \$179, plus \$8 shipping and handling. If you are registered to attend this seminar, you may order a set of tapes/CDs for this program at \$49 each. Order online at our website, by faxing or mailing the registration form on this brochure or by calling (800) 397-0180. Supply may be limited. Please call to check for availability. Participant use of recording devices at the seminar is not permitted. Please allow 4 to 6 weeks following the seminar date for delivery.

*"Al Lodwick's presentations mix a lot of humor with practical warfarin knowledge."*

Beth Myers, RN, Cardiac Rehab  
Pueblo West, Colorado

## COURSE CONTENT

### THE HISTORY OF WARFARIN—WHAT YOU AND YOUR PATIENTS NEED TO KNOW

- ◆ Early 1900s - development of the milk industry
- ◆ 1920s - cattle deaths, rat poison
- ◆ 1940s - dicoumarol, warfarin patented
- ◆ 1950s - suicide attempt, Eisenhower's MI
- ◆ 1960s - still practically nothing known about it
- ◆ 1980s - discovered prothrombin time was affected by the sensitivity of the reagents
- ◆ 1990s - International Normalized Ratio (INR) developed
- ◆ Understanding of metabolizing enzymes

### MONITORING PATIENT ANTICOAGULATION—STRATEGIES, TOOLS AND REIMBURSEMENT

- ◆ Referral form
- ◆ Clinic visit report template
- ◆ INR vs. dose chart
- ◆ Quality assurance report
- ◆ Missed appointment letter
- ◆ Dropped from clinic letters
- ◆ Management algorithms
- ◆ Notes about vitamin K
- ◆ INR ranges for various indications
- ◆ Billing for services

### MANAGING INTERACTIONS WITH DRUGS, FOOD AND CLINICAL SITUATIONS

- ◆ The clotting cascade
- ◆ Acetaminophen
- ◆ Alcohol
- ◆ Allopurinol
- ◆ Amiodarone
- ◆ Antibiotics
- ◆ Azathioprine
- ◆ Barbiturates
- ◆ Carbamazepine
- ◆ Co-trimoxazole
- ◆ Dicloxacillin/nafcillin
- ◆ Fluconazole
- ◆ Fluorouracil/capecitabine
- ◆ Leflunomide
- ◆ Rifampin
- ◆ St. John's wort
- ◆ Thyroid
- ◆ Foods
- ◆ Fluid retention
- ◆ Exercise

### LEGAL CASES INVOLVING WARFARIN AND HOW TO AVOID THEM

- ◆ Stroke in the dentist's chair
  - recommendations from the American Dental Association
  - How could this have been prevented?
- ◆ Did stopping warfarin cause these problems?
  - Does the patient have protein C deficiency?
  - heart surgery
  - warfarin therapy
  - lung surgery
  - bowel surgery
  - analysis
  - How could this have been prevented?
- ◆ Was the patient adequately monitored?
  - history
  - the lawsuit
  - analysis
  - How could this have been avoided?
- ◆ Sometimes even having big-name consultants doesn't help
  - history
  - NYPD opinion
  - consultants agree with NYPD
  - outcome
  - What lesson was learned?
- ◆ What made this person sue?
  - history
  - outcome

### HOW TO HANDLE PATIENT QUESTIONS, CONCERNS AND MISCONCEPTIONS

- ◆ Most common concerns
- ◆ Brand name vs. generic
- ◆ What the patient needs to know about International Normalized Ratio (INR)
- ◆ Low-molecular-weight heparin bridging
- ◆ Mismanagement of a suspected deep vein thrombosis
- ◆ Holding warfarin doses
- ◆ Papain—changing perceptions
- ◆ Increasing the dose when the INR is in range
- ◆ Finger stick vs. venous samples

### HOW TO HANDLE QUESTIONS (continued)

- ◆ "I have to stop warfarin to have my teeth cleaned"
- ◆ "My INR needs to be below 1.0 before I get my teeth cleaned"
- ◆ Stopping warfarin before minor surgery
- ◆ Giving large doses of vitamin K prior to surgery
- ◆ "I have to stop warfarin for a pap smear"
- ◆ The danger of bleeding
- ◆ "I can't go home until my INR is therapeutic"
- ◆ "I can't eat anything green, not even green jelly beans"

### UNRESOLVED QUESTIONS

- ◆ Bridging therapy
  - pros
  - cons
  - clinical experience
  - outcomes
- ◆ Hospice care
- ◆ How long to treat a DVT with warfarin
- ◆ Using vitamin K
  - pros
  - cons
  - recommendations
- ◆ Warfarin vs. platelet inhibitors
- ◆ Is it better to have a high or low INR?
- ◆ Pregnancy while on warfarin
- ◆ What is the target INR for antiphospholipid antibody syndrome?

### THE FUTURE OF ANTICOAGULATION

- ◆ What happened to ximelagatran?
- ◆ Oral direct thrombin inhibitors
  - dabigatran
  - rivaroxaban
  - otamixaban
  - razaxaban
  - LY517717
- ◆ Factor VII inhibition
- ◆ Factor IX inhibition
- ◆ Factor XII inhibition
- ◆ Final thoughts

## Dates & Locations

### DULUTH - July 25, 2007

Radisson Hotel  
505 W. Superior St., Duluth, MN 55802 (218) 727-8981

### ST. CLOUD - July 26, 2007

Radisson Suites  
404 W. St. Germain, St. Cloud, MN 56301 (320) 654-1661

### MINNEAPOLIS - July 27, 2007

Radisson University Hotel  
615 Washington Ave. S.E., Minneapolis, MN 55414 (612) 379-8888

### SIOUX FALLS - August 15, 2007

Sheraton Sioux Falls and Convention Center  
1211 West Ave. N., Sioux Falls, SD 57104 (605) 331-0100

### OMAHA - August 16, 2007

The Magnolia Hotel  
1615 Howard St., Omaha, NE 68102 (402) 342-2222

### DES MOINES - August 17, 2007

Embassy Suites Hotel on the River  
101 E. Locust St., Des Moines, IA 50309 (515) 244-1700

## Course Hours

Registration begins at 7:30 a.m. The seminar **begins at 8:00 a.m.** and **concludes at 3:30 p.m.** Lunch is on your own from 11:30 a.m. to 12:30 p.m. For late arrivals or early departures, please see amended certificate information under Continuing Education Credit.

## Confirmations & Cancellations

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**Disclaimer:** Any opinions, findings, recommendations or conclusions expressed by the author(s) or speaker(s) do not necessarily reflect the views of Cross Country Education. Cross Country Education reserves the right to substitute a qualified instructor due to unforeseen circumstances.

Registrants will not receive a certificate until payment has been received. If payment is not received ten (10) days prior to the seminar, the certificate may not be present at the seminar. If your payment is returned NSF it will be re-presented electronically and a processing fee will be charged as allowed by law.

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**Nurse Practitioners:** Cross Country Education is accredited by the American Academy of Nurse Practitioners as an approved provider of nurse practitioner continuing education. Provider number: 060313. This course is offered for 6.0 contact hours of which 6.0 are Pharmacology related.



**Pharmacists:** The University of Florida College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. ACPE Universal Program Number 012-999-06-140-L01. This seminar is offered for 6 ACPE contact hours. Statements of Continuing Pharmacy Education Credit will be distributed by Cross Country Education serving as an agent for The University of Florida College of Pharmacy following the program. For those whose Statement of Credit cannot be distributed, it will be mailed by Cross County Education within 4 weeks following the program.



**Other professions:** This seminar qualifies for 6 continuing education hours as required by many national, state and local licensing boards and professional organizations. Save your course outline and certificate of completion, and contact your own board or organization for specific filing requirements.

**All professionals:** In order to process continuing education, please bring the appropriate license/certification number to the seminar.

**Amended certificates:** Please note that the credit hours listed above are offered by Cross Country Education and/or boards/associations for a full day's attendance. In the event of late arrival and/or early departure, amended certificates indicating the actual number of credit hours earned will be provided upon calling Cross Country Education.

**ADA:** If you require ADA accommodations, please contact Cross Country Education at least two weeks before the seminar date so that arrangements can be made.

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