Mayo Clinic

Advances in Diagnostic Radiology

October 28-31, 2002
Course Co-Directors:
Jerome F. Breen, M.D. and Timothy J. Welch, M.D.

Advanced Radiology Life Support™ (ARLS)

Sunday, October 27, 2002
Course Co-Directors:
Mark S. Collins, M.D. and John T. Wald, M.D.

Loews Ventana Canyon Resort
Tucson, Arizona
COURSE DATE AND LOCATION

Mayo Clinic *Advances in Diagnostic Radiology* will be held October 28-31, 2002 (Monday-Thursday), and *Advanced Radiology Life Support™ (ARLS)* will be held Sunday, October 27, 2002. Both courses will be held at Loews Ventana Canyon Resort in Tucson, Arizona. For more information about what Tucson has to offer, contact the Metropolitan Tucson Convention and Visitors Bureau by phone at 800-638-8350 or visit them online at www.visittucson.org.

REGISTRATION

To register, complete the attached registration form and return by mail or FAX with the appropriate registration fee. The registration fee for *Advances in Diagnostic Radiology* includes tuition, comprehensive course syllabus, continental breakfasts, refreshment breaks, and welcome reception. The registration fee for *Advanced Radiology Life Support™* includes tuition, comprehensive course syllabus, continental breakfast, refreshment breaks, and lunch. Although it is not Mayo School of Continuing Medical Education policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is strongly advised. A letter of confirmation will be sent upon receipt of payment and completed registration form.

LODGING ACCOMMODATIONS

Loews Ventana Canyon Resort (meeting headquarters) is located 35 minutes from the Tucson International Airport and rests on a plateau, nestled in the Catalina Mountain foothills on 93 acres of ancient Sonoran desert. The resort features two Tom Fazio-designed championship golf courses, eight tennis courts, a full service spa and fitness center, and five exceptional restaurants. Secluded paths and terraces are laced through virgin groves of mesquite, squawbush, and blue paloverde. This location offers a place where ancient cultures, untamed landscapes, and tranquil surroundings harmoniously coexist. As an added benefit, Tucson boasts more than 350 days of sunshine each year! For more information about what the property has to offer, visit the Loews Ventana Canyon Resort web page at www.loewshotels.com/hotels/tucson.

Loews Ventana Canyon Resort has extended a special room rate of $225 per night plus tax to participants of this course. Contact the hotel directly by phone at 800-234-5117/520-299-2020, or FAX at 520-529-2980 to make your reservation. To ensure accommodations and the discounted rate, please make your reservation by September 26, 2002, and identify yourself as a participant of Mayo Clinic Advances in Diagnostic Radiology/ARLS. *After the cut-off date, and/or after the room block has been filled, reservations will be accepted on a space-available basis. You are strongly encouraged to register for the course and secure lodging reservations early to avoid disappointment.*

RECREATION AND LEISURE ACTIVITIES

Activities at or near Loews Ventana Canyon Resort include golf, swimming, horseback riding, hiking, mountain biking, hot air ballooning, croquet, ping-pong, basketball, and a kids club. For more information regarding tours and activities, contact the resort concierge by calling 800-234-5117/520-299-2020.
TRAVEL ARRANGEMENTS

American Airlines is the official carrier for this Mayo course. Reduced airfares are available for participants by calling American Airlines at 800-433-1790/817-267-2222. Reference this course as Index#S9988, Authorization#41H2AA. Reduced airfares are subject to availability. To take maximum advantage of discounted rates, it is strongly recommended that flights be booked 60 or more days prior to actual travel. You may contact the designated travel agency, Corporate Travel, for additional assistance with airfare or ground transportation arrangements by calling 800-526-4540/507-282-9121.

Special car rental rates are available through Budget Car Rental at the Tucson International Airport and the Loews Ventana Canyon Resort Desk. Daily and weekly rates include unlimited mileage for most types of vehicles. For reservations, call 800-279-3734/520-889-8800 and reference this course and rate code X117 to receive the discounted rate.

Taxi and airport shuttle service is available to and from Loews Ventana Canyon Resort. Individuals may phone the resort concierge directly at 800-234-5117/520-299-2020 to make reservations. The resort is located approximately 35 minutes from the airport.

FUTURE RADIOLOGY COURSE DATES AND LOCATIONS

Mayo Clinic Tutorials in Diagnostic Radiology
Fairmont Kea Lani Resort
Maui, Hawaii
January 26-30, 2003

Mayo Clinic Advances in Diagnostic Radiology and Advanced Radiology Life Support™ (ARLS)
Bacara Resort and Spa
Santa Barbara, California
September 21-25, 2003

FACULTY DISCLOSURE

As a provider accredited by ACCME, Mayo Foundation must ensure balance, independence, objectivity, and scientific rigor in its educational activities. All faculty participating in a Mayo Foundation activity are required to disclose commitments to and/or relationships with pharmaceutical companies, biomedical device manufacturers or distributors, or others whose products or services may be considered to be related to the subject matter of the educational activity. Faculty will also disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of these commitments and/or relationships will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.
COURSE DESCRIPTION – ARLS

The Advanced Radiology Life Support™ (ARLS) Course is designed to focus on the unique, life-threatening emergencies that occur within a radiology department. It is designed to teach prompt recognition and treatment of contrast reactions, management of conscious sedation, the proper management of an airway in an emergency situation, and basic concepts of advanced life support. This course will offer Basic Life Support (BLS) recertification as well as hands-on clinical stations and didactic instruction.

ARLS, including BLS recertification and conscious sedation training, will be offered in a single day format on Sunday, October 27, 2002. The ARLS, conscious sedation, and BLS training materials included in this course were used to train physicians, nurses, and allied health personnel at the Mayo Clinic prior to a JCAHO site visit. This training program may help to prepare your department for a similar evaluation.

INTENDED AUDIENCE – ARLS

Advanced Radiology Life Support™ (ARLS) is designed for practicing radiologists, radiology fellows and residents, and radiology nurses.

COURSE LEARNING OBJECTIVES – ARLS

Upon conclusion of this course, participants should be able to:

• Identify all serious contrast reactions
• Describe proper use, administration, and potential side effects of intravenous sedation and analgesic medications
• Explain unusual characteristics displayed by persons who are experiencing a heart attack, stroke, or airway obstruction
• Demonstrate the proper management of an airway in an emergency situation
• Identify risk factors for heart attack
• Review management of the early stages of a complete cardiac arrest
• Distinguish between adult/child and single versus multiple rescuer CPR procedures
• Operate an Automatic External Defibrillator

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

CREDIT – ARLS

Mayo Foundation is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Mayo Foundation designates this educational activity for a maximum of 8.0 hours in category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

This course content includes 3.0 hours of Conscious Sedation and Airway Management Training as well as 3.0 hours of BLS Training. Nurse practitioners and other health care professionals will be provided a certificate of attendance for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

CANCELLATION POLICY – ARLS

Your registration fee, less a $50 administrative fee, will be refunded when written notification regarding your intent to cancel registration for Advanced Radiology Life Support™ is received by the Mayo School of Continuing Medical Education before October 13, 2002. No refunds will be made after October 13, 2002.
SUNDAY, OCTOBER 27, 2002

7:00 a.m.  Registration/Continental Breakfast
8:00 a.m.  Introduction
   John T. Wald, M.D.
8:10 a.m.  Contrast Media
   Mark S. Collins, M.D.
9:00 a.m.  Contrast Reactions
   John T. Wald, M.D.
9:35 a.m.  Questions and Answers
   Course Faculty
9:45 a.m.  Refreshment Break
10:00 a.m. Sedation and Analgesia I
   Jeffrey P. Quam, M.D.
10:30 a.m. Sedation and Analgesia II
   Michael J. Quinn, CRNA
11:00 a.m. Questions and Answers
   Course Faculty
11:15 a.m. Station Practicals
   A. Airway Management/Monitoring of the Sedated Patient
      Course Faculty
   B. Contrast Reaction Scenarios
      Course Faculty
12:30 p.m. Lunch
1:30 p.m.  Basic Life Support Video and CPR
   Course Faculty
2:45 p.m.  Refreshment Break
3:00 p.m.  Basic Life Support Video and CPR
   Course Faculty
5:15 p.m.  Written Examination
   Course Faculty
5:45 p.m.  Course Adjourns

COURSE FACULTY – ARLS

Mayo Clinic Rochester
Darcy L. Adamczyk, M.D.
Mark S. Collins, M.D.*
Bruce R. Douglas, M.D.
Gina K. Hesley, M.D.
Edward P. Lindell, M.D.
Gary M. Miller, M.D.
Sherrie L. Prescott, R.N.
Michael J. Quinn, CRNA
Jeffrey P. Quam, M.D.
Shawn A. Schreiner, M.D.
Gregory A. Schultz, M.D.
Kristen B. Thomas, M.D.
John T. Wald, M.D.*
Robert E. Watson, Jr., M.D.

* Course Co-Directors
COURSE DESCRIPTION – ADVANCES

Advances in Diagnostic Radiology is a postgraduate course designed to update the diagnostic radiologist in new trends, relevant techniques, and applications in diagnostic imaging. The latest advances in diagnostic radiology will be emphasized and related to common problems encountered in clinical practice. A variety of didactic lectures, informal workshops, question and answer sessions, and accessible faculty members will enhance learning throughout the week.

COURSE HIGHLIGHTS – ADVANCES

- Course faculty consists of clinically-active, subspecialty-trained radiologists
- Numerous question and answer discussion sessions
- Ultrasound interactive workshop utilization of live patient models
- Successful recruitment and retention of radiologic technologists in today’s environment
- New trends in stroke imaging
- Eighteen (18) different small group workshops from which to choose
- Twenty-two (22) hours of category 1 CME credit
- Two (2.0) hours of mammography training

INTENDED AUDIENCE – ADVANCES

Advances in Diagnostic Radiology is a postgraduate course designed to update the diagnostic radiologist in new trends, relevant techniques, and applications in diagnostic imaging.

COURSE LEARNING OBJECTIVES – ADVANCES

Upon conclusion of this course, participants should be able to:

- Identify the advantages of fast scan MRI techniques
- Implement MR protocols for the 21st century
- List the applications of CT for lung cancer screening
- Recognize new trends in stroke imaging
- Apply new imaging techniques in ultrasound scanning
- Evaluate the imaging features of CT for trauma to the chest and abdomen
- Review the systematic approach to the diagnosis of soft tissue tumors
- Describe the benefits of PET imaging
- Describe how to successfully recruit and retrain radiologic technologists in today’s environment

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

CREDIT – ADVANCES

Mayo Foundation is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Mayo Foundation designates this educational activity for a maximum of 22 hours in category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

This course content includes 2.0 hours of mammography training.

Nurse practitioners and other health care professionals will be provided a certificate of attendance for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.
CANCELLATION POLICY – ADVANCES

Your registration fee, less a $75 administrative fee, will be refunded when written notification regarding your intent to cancel registration for Advances in Diagnostic Radiology is received by the Mayo School of Continuing Medical Education before October 13, 2002. No refunds will be made after October 13, 2002.

SOCIAL PROGRAM – ADVANCES

Welcome Reception – Monday, October 28, 2002, 6:00-7:30 p.m.
Attendees and their guest(s) are cordially invited to join the course faculty for a complimentary welcome reception on Monday, October 28, starting at 6:00 p.m. This casual reception welcomes Advances in Diagnostic Radiology course participants to Tucson, officially opens the course, and offers the perfect opportunity to make connections with new and existing colleagues. Pre-registration is requested.

EDUCATIONAL GRANTS – ADVANCES

This course is supported in part by educational grants from the following companies in accordance with ACCME Standards:

- ALI
- Berlex Laboratories
- Bracco Diagnostics, Inc.
- Cook, Inc.
- Fuji Medical Systems, Inc.
- General Electric Medical Systems
- Mallinckrodt, Inc.
- Amersham Health
- Philips Medical Systems, Inc.
- Siemens Medical Systems, Inc.

At the time of this printing, a complete listing of commercial supporters was not available. Appropriate acknowledgment will be given to all supporters at the time of the meeting.

COURSE FACULTY – ADVANCES

Mayo Clinic Rochester
Claire E. Bender, M.D.
Jerome F. Breen, M.D.*
Stephanie K. Carlson, M.D.
Mark S. Collins, M.D.
Richard L. Ehman, M.D.

Mayo Clinic Jacksonville
Joseph G. Cernigliaro, M.D.

Katrina N. Glazebrook, M.D.
David M. Hough, M.D.
Eric J. Lantz, M.D.
John R. Lindsey, R.D.M.S., R.V.T.
Amy L. Kotsenas, M.D.
Val J. Loue, M.D.
Stephen J. Swensen, M.D.
Terri J. Vrtiska, M.D.
Timothy J. Welch, M.D.*
Mark J. Kransdorf, M.D.

*Course Co-Directors
MONDAY, OCTOBER 28, 2002

6:00 a.m. Registration/Continental Breakfast

SYMPOSIUM ON MR IMAGING

7:00 a.m. Welcome
Jerome F. Breen, M.D. and Timothy J. Welch, M.D.

7:05 a.m. MR Protocols for the 21st Century
Richard L. Ehman, M.D.

8:05 a.m. Questions and Answers

8:10 a.m. MR of CNS Neoplasms Including MR Spectroscopy and Perfusion
Amy L. Kotsenas, M.D.

9:10 a.m. MRI of the Knee
Richard L. Ehman, M.D.

10:15 a.m. Questions and Answers

10:20 a.m. Refreshment Break and Exhibits

10:35 a.m. MRA of the Aorta and Renal Arteries
Jerome F. Breen, M.D.

11:35 a.m. Questions and Answers

11:40 a.m. MRI of the Ankle and Hindfoot
Mark S. Collins, M.D.

12:40 p.m. Questions and Answers

12:50 p.m. Session Adjourns

6:00 p.m. Welcome Reception

TUESDAY, OCTOBER 29, 2002

6:30 a.m. Continental Breakfast

7:00 a.m. Concurrent Workshop I

A. Echogenic and Mucinous Lesions of the Breast
Katrina N. Glazebrook, M.D.

B. CT for P.E.
Stephen J. Swensen, M.D.

C. Part I: Perineal Pain, the Pudendal Nerve, and CT-Guided Treatment
Part II: Ultrasound of the Anal Sphincter
David M. Hough, M.D.

8:05 a.m. Concurrent Workshop II

A. Spiculated and Circumscribed Lesions of the Breast
Katrina N. Glazebrook, M.D.

B. New Trends in Stroke Imaging
Amy L. Kotsenas, M.D.

C. Abdominal Doppler Ultrasound
David M. Hough, M.D.
MULTISLICE CT

9:10 a.m. Basics of Multislice CT
Timothy J. Welch, M.D.

9:40 a.m. Questions and Answers

9:45 a.m. Refreshment Break and Exhibits

10:00 a.m. Cardiac CT
Jerome F. Breen, M.D.

10:30 a.m. Questions and Answers

10:35 a.m. Lung Cancer Screening with CT
Stephen J. Swensen, M.D.

11:35 a.m. Questions and Answers

11:40 a.m. CT Angiography
Terri J. Vrtiska, M.D.

12:40 p.m. Questions and Answers

12:55 p.m. Session Adjourns

WEDNESDAY, OCTOBER 30, 2002

6:30 a.m. Continental Breakfast

7:00 a.m. Concurrent Workshop I

A. CT Fluoroscopy
Stephanie K. Carlson, M.D.

B. Ultrasound Interactive Workshop: Optimizing Abdominal
Vascular Sonography
John R. Lindsey, R.D.M.S., R.V.T.

C. Successful Recruitment and Retention of Radiologic Technologists in
Today’s Environment
Claire E. Bender, M.D.

8:05 a.m. Concurrent Workshop II

A. The Stomach
Joseph G. Cernigliaro, M.D.

B. Ultrasound Interactive Workshop: Optimizing Abdominal
Vascular Sonography
John R. Lindsey, R.D.M.S., R.V.T.

C. Helping our Troubled Colleagues
Claire E. Bender, M.D.

ABDOMINAL IMAGING

9:10 a.m. CT of Colitis
Stephanie K. Carlson, M.D.

10:10 a.m. Questions and Answers

10:15 a.m. Refreshment Break and Exhibits

10:30 a.m. P.E.T. Imaging in Gastrointestinal Malignancies
Val J. Lowe, M.D.
Program Schedule – ADVANCES
(continued)

11:30 a.m. Questions and Answers
11:35 a.m. Screening CT  
Terri J. Vrtiska, M.D.
12:35 p.m. Questions and Answers
12:55 p.m. Session Adjourns

THURSDAY, OCTOBER 31, 2002

6:30 a.m. Continental Breakfast
7:00 a.m. Concurrent Workshop I  
A. CT Blunt Trauma Chest and Abdomen (Part I)  
   Eric J. Lantz, M.D.
B. P.E.T. Imaging in Lung Cancer  
   Val J. Lowe, M.D.
C. Ultrasound Interactive Workshop: Upper and Lower Extremity  
   Venous Duplex Imaging  
   John R. Lindsey, R.D.M.S., R.V.T.

8:05 a.m. Concurrent Workshop II  
A. CT Blunt Trauma Chest and Abdomen (Part II)  
   Eric J. Lantz, M.D.
B. GI/GU Trauma  
   Joseph G. Cernigliero, M.D.
C. Ultrasound Interactive Workshop: Imaging of the Neck–Vascular and Non-Vascular  
   John R. Lindsey, R.D.M.S., R.V.T.

MUSCULOSKELETAL IMAGING

9:10 a.m. Common Osseous Lesions  
   Mark J. Kransdorf, M.D.
10:10 a.m. Questions and Answers
10:15 a.m. Refreshment Break and Exhibits
10:30 a.m. Musculoskeletal Intervention  
   Timothy J. Welch, M.D.
11:30 a.m. Questions and Answers
11:35 a.m. Systematic Approach to the Diagnosis of Soft Tissue Tumors  
   Mark J. Kransdorf, M.D.
12:35 p.m. Questions and Answers
12:55 p.m. Course Adjourns
Registration Form

Mayo Clinic

Advances in Diagnostic Radiology
(October 28–31, 2002) – and –
Advanced Radiology Life Support™ (ARLS)
(October 27, 2002)

Loews Ventana Canyon Resort – Tucson, Arizona

To register, complete and return this registration form by mail or FAX. A letter of confirmation will be sent upon receipt of payment and completed registration form. Enrollment is limited; early registration is encouraged.

Mail form and payment to:
Mayo School of Continuing Medical Education
200 First Street SW
Rochester, MN 55905

Telephone: 800-323-2688 or 507-284-2509
FAX: 507-284-0532
Website: www.mayo.edu/cme
E-Mail: cme@mayo.edu

(Please print or type all information. You may duplicate this form for multiple registrations.)

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Which is your preferred mailing address: □ Work/Business □ Home

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☐ Check box if you have special accommodation/dietary needs. If so, please indicate your needs here: _______________________________

ADVANCES IN DIAGNOSTIC RADIOLOGY (October 28–31, 2002) – R2002M224
Registration Fee:
Physician Fee – $695 $ _________
Non-Physician Fee – $350 $ _________

Complimentary Welcome Reception (Monday, October 28, 2002)
☐ Yes, I will attend: number attending #__________
☐ No, I will not attend

ADVANCED RADIOLOGY LIFE SUPPORT™ (October 27, 2002) – R2002M224-1
Registration Fee:
Physician Fee – $295 $ _________
Non-Physician Fee – $150 $ _________

Total Payment Enclosed: $ _________

Payment Method:
☐ Check (payable to Mayo Foundation)  ☐ Credit Card: ☐ Visa ☐ MasterCard ☐ Discover

Card Number ____________________ Expiration date MO/YR ____________

Signature __________________________ Date ____________

PAYMENT

This course content includes 2.0 hours of mammography training.

This course content includes 3.0 hours of Conscious Sedation and Airway Management Training and 3.0 hours of BLS Training.