KANAL’S MAGNETIC RESONANCE PHYSICS COURSE

Clinical MRI, MRA, and MRS: Understanding and Applying

January 17–21, 2016

ANTLERS AT VAIL

Vail, Colorado
Emanuel Kanal graduated cum laude from Yeshiva University in New York with a double major in premedicine and biology and a minor in physics. He then graduated from the University of Pittsburgh School of Medicine with membership in the Alpha Omega Alpha Medicine Honors Society and completed his internship in emergency medicine and his residency in diagnostic radiology at the University Health Center of Pittsburgh. Kanal completed his first fellowship in magnetic resonance imaging (MRI) and a second fellowship in neuroradiology at what was then the Pittsburgh NMR Institute and University of Pittsburgh Medical Center (UPMC). He was the medical director of the Pittsburgh NMR Institute until its incorporation into UPMC, when he became director of MR services in the University of Pittsburgh Department of Radiology, a position he maintains to date.

Kanal is a founding member, board member, officer, and/or member of numerous national and international professional societies and serves as a consultant to the U.S. Food and Drug Administration on MR safety issues. He has chaired and/or served on MR safety committees for more than 30 years, was chair of the first national and international MR safety committee, and served as chair of the American College of Radiology’s Blue Ribbon Panel on MR Safety. He is the lead author of the ACR’s White Paper on MR Safety and its contained MR Safe Practice Guidelines and their numerous updates. Kanal also created and founded the first MR safety Web site in 1995 and is coauthor of the first MR safety textbook. Most recently, Kanal is the founding member and Chairman of the American Board of Magnetic Resonance Safety, the first organization formed exclusively to certify and credential, by means of formal written examinations, Magnetic Resonance Medical Directors/Physicians (MRMD), Magnetic Resonance Safety Officers (MRSO), and Magnetic Resonance Safety Experts (MRSE), the individuals charged with ensuring safety in magnetic resonance environments.

In 1991, Kanal was the first to have developed and presented the usage of timed bolus contrast- enhanced magnetic resonance angiography (MRA) in humans. He has published numerous original peer-reviewed articles, reviews, monographs, abstracts, books, and book chapters and lectures extensively on clinical MR and MR safety-related topics. He also is the author of the most comprehensive clinical MR/CT/CTA/MRI/CTA/MRI simulator software ever created, which he uses throughout his courses and lectures.

Emanuel Kanal has custom developed and continues to expand on a Mac-based MR imaging tutorial program. Developed with the assistance of in-house programmers and the support of industry experts, the program addresses the often-difficult task of assimilating MR physics with the clinical goals of lesion detectability, scan time, imaged volume, and scanning efficiency.

The program combines graphic, text, and audiovisual formats to demonstrate the underlying concepts common to all MR imaging systems. Users can simulate the effects of changing the sequence type on any of the literally dozens of MR imaging parameters and observe the effects simulated on the computer screen. Features available include spin echo imaging, inversion recovery imaging, gradient echo imaging, and contrast-enhanced imaging techniques. Computer tutorials are integrated with the formal lectures of the Center for Magnetic Resonance Education.

Course Description

EDUCATIONAL OBJECTIVES

Depending on the course attended, participants should be able to:

• Discuss gadolinium-based MR contrast agent use, including mechanism of action, distribution, time versus concentration considerations, and the clinical impact and benefits of higher relaxivity agents.
• Identify numerous MR imaging artifacts, how to recognize them, and how to decrease or eliminate them.
• Describe the unique advantages and clinical applicability of utilizing such MR pulse sequences as inversion recovery (including FLAIR and STIR), diffusion weighted imaging, perfusion weighted imaging, and MR spectroscopy.
• Identify various types of MR angiographic sequences and their specific advantages, limitations, and artifacts.
• Introduce the concepts underlying MR spectroscopy and spectrocopic imaging and demonstrate how these are clinically applied in routine patient care settings.

CONTINUING MEDICAL EDUCATION (CME)
The University of Pittsburgh School Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 20.0 AMA PRA Category 2 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals are awarded 2.0 continuing education units (CEUs) which are equal to 20.0 contact hours.

MR TUTORIAL SOFTWARE

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VIDEO/AUDIO RECORDING POLICY

Video and/or audio recording by course participants is not permitted during the lectures. Unauthorized recording equipment is not allowed in the meeting rooms.

SPECIAL NEEDS OF DISABLED PERSONS

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by calling Robin DeAngelo at 412-647-3510.

COURSE DETAILS

Since 1985, Emanuel Kanal has taught literally thousands of people the concepts underlying MR imaging physics and their clinical applications. His teaching style is informal, interactive, humorous, enthusiastic, energetic, and unique. Among the unique aspects of this course is that it takes full advantage of the graphic, interactive format of his custom-developed MR tutorial and simulator software programs, which permit real-time simulation of the effects of MR image parameter manipulation on the scanned images.

The course will review basic MR imaging principles, including explanations and applications of such parameters as T1, T2, T2*, proton density, TR, TE, TI, flip angle, contrast agents, relaxation, etc. It will review spin echo, gradient echo, and inversion recovery (including FLAIR and STIR) imaging techniques and it will lead into a number of more complex MR issues, including several hours dedicated to MR angiography, diffusion and perfusion weighted imaging, sequence optimization techniques for high relativity MR contrast agents, and MR spectroscopy.

Kanal is recognized as one of the most sought-after MR educators in the world today; is the first to have developed, applied, and presented dynamic bolus contrast-enhanced MRA, and is the pre-eminent physician authority on MR safety issues.

As is his style, Kanal will be available to answer questions and clarify concepts at and between each conference session. Participants will leave this conference with a solid understanding of complex but clinically vital MR imaging, angiography, and spectroscopy physics principles and how to apply them to routine clinical diagnostic patient care.

Participants are not required to purchase any special books. They will be given a workbook that contains articles and graphs to be used as a resource during the course.

“Very enthusiastic course ... I highly recommend this course for any radiologist or MRI tech!”

“Dr. Kanal is enthusiastic, entertaining, passionate, energetic, and very knowledgeable!”

“I wish I could put this in a bottle and pour it out again and again.”

“He tells you what he is going to do, does it, and reviews it, checking to make sure the audience is getting it!”

“Dr. Kanal’s lecture style is spellbinding and effective!”

Target Audience

This is a unique, highly focused, and concentrated MR course developed by Emanuel Kanal and designed for radiologists, neuroradiologists, cardiologists, physicists, technologists, industry specialists, and others who seek to understand how MR imaging works and how to clinically apply it.

The University of Pittsburgh is an affirmative action, equal opportunity institution.

Published in cooperation with the Department of Communication Services. DOE2100-01-0965
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<thead>
<tr>
<th>DAY</th>
<th>January 17</th>
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<tr>
<td>3:30–4:15 p.m.</td>
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<td>7:30–8:30 a.m.</td>
<td>Review of Gradient Echo Imaging; The Role of TR, Flip Angle</td>
<td>Review of Gradient Echo Imaging; MR Safety Overview, MR Safety Certification, and the ABMRS</td>
<td>MR Contrast Agents</td>
<td>Summary of Principles, Techniques, and Uses of MRA</td>
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<td>8:30–9:30 a.m.</td>
<td>Proton Density</td>
<td>TR, TE, and Computer Simulation Review</td>
<td>High Reliability GBCA and Associated Sequence Optimization Techniques</td>
<td>Magnetic Resonance Spectroscopy</td>
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<td>1:30–2:30 p.m.</td>
<td>Review of Gradient Echo Imaging; TE vs. T2*</td>
<td>How to Successfully Achieve T1, T2*, and/or Proton Density Weighting</td>
<td>Sequence Optimization and Associated Techniques</td>
<td>Review of Gradient Echo Imaging; TE vs. T2*</td>
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<td>5:30–5:40 p.m.</td>
<td>Inversion Recovery Imaging and its Variants, Parts 1 and 2</td>
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<td>6:30–7 p.m.</td>
<td>Inversion Recovery Imaging and its Variants, Parts 1 and 2 (cont.)</td>
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**Daily Schedule**

**A Special Place**

Whether you're planning a vacation, here for a ski season, or relocating to the area, find out what others have come to realize. Year-round, Vail is a special place.

Vail is home to 4,500 permanent residents plus another 5,000 part-time residents of vacation properties. Together, we share and value a lifestyle that combines one of the best alpine resorts in the world with a friendly, small-town feel. Not only do we enjoy the bountiful recreational and cultural opportunities that are available, we also take pride in a quality of life that provides alpine living at its best. Visitors and residents alike enjoy the 1,100 acres of open space accounting for 30 percent of Vail’s town-owned land; 350,000 surrounding acres of national forest crowned by 5,289 skiable acres on one of the largest and best ski mountains in the world; 15 miles of recreation paths; countless special events; the highest botanical gardens in the world; and an outdoor amphitheater named for Vail's most famous resident, President Gerald R. Ford.

Besides being one of the favorite ski destinations in the world, Vail is a community people love to live in. There are numerous employment opportunities, especially at the peak of the ski season when valley employers hire more than 4,000 employees. Full-time professional opportunities also are available, and many employers offer housing assistance programs, free transportation, parking programs, and competitive wages and benefits.

Vail was founded as a ski resort in 1962, incorporated as a town in 1966, and became a Home Rule Charter municipality in 1972. Vail has a council-manager form of government and is led by a seven-member town council elected at large. A $45.5 million net revenue annual budget provides essential services like police and fire protection, plus additional amenities such as the largest free transportation system in the country, which reduces pollution and traffic congestion year-round.

With world-renowned skiing, diverse shops and restaurants, luxurious accommodations, friendly neighborhoods, and breathtaking mountain views, Vail is arguably the finest resort destination in the world. See for yourself; Vail is a great place to live or visit.
EAGLE COUNTY AIRPORT
Just minutes from Vail and the best skiing in North America, Eagle County Airport (EGE) gets you directly to the heart of the Colorado Rockies, year-round. Trade the long drives, snowy passes, and airport delays for friendly, world-class service and ASAP access to your favorite outdoor activities.
EGE has grown with the opening of its award-winning passenger terminal in 1996. In 2004, it served its millionth passenger and set an EGE record for commercial passenger enplanements. New at EGE is the addition of customs services for private aircraft and free wireless Internet service in the terminal. Just bring your laptop!
EGE is the quality airport of choice for people traveling to western Colorado. Whether you’re visiting the area for business or pleasure, using private aircraft or scheduled commercial flights, EGE offers the best in convenience, security, and extra special customer service. For further information, visit the EGE Web site at eaglecounty.us/airport or flyvail.com, e-mail EGE at ecar@eaglecounty.us, or contact the airport by phone at 970-328-2680.

LOCAL ACTIVITIES
Adventure Ridge is Vail’s mountaintop activity center. The Lionshead area offers a variety of activities, not to mention incredible skiing. Those on foot can ride the Eagle Bahn Gondola free after 2 p.m. Lift tickets can be pre-purchased through the Antlers.
Play all day and well into the night at Adventure Ridge with ski bikes, a kids snowmobile track, a bungee trampoline, a slippery slope of rip-roaring tubing lanes, and more.
You can enjoy skiing, snowmobiling, tubing, ski biking, and even horse-drawn carriage rides through Vail Village at sunset. All of this and more are available just outside your door.
For more information, call 970-476-9090, or visit vail.com.

ACTIVITIES

Family Fun
SKI BIKING
Part bike. Part ski. All adventure. If you’re a skier looking for a challenge, you’ll want to sign up for nighttime downhill guided tours, recommended for intermediate, expert, or advanced-level skiers or riders. Children must be at least 14 years old and 4’6” tall.
TUBING
Grab a tube, hop a lift, get a rush. The multilane tubing hill whisked you downhill and the easy–access surface lifts take you back up quickly. Children 5 years of age and younger must be accompanied by an adult on the hill.
SNOWSHOEING
Take a hike in the snow with the pros and learn about the montane, subalpine, and alpine zones in the region’s highest-altitude nature center. All ages are welcome, but snowshoeing is recommended for adults and kids over 12.

For the Kids
KIDS SKI AND SNOWBOARD SCHOOL
Little ones get lots of attention at Vail. Our kids’ and teens’ programs focus on all sorts of terrain to give them the confidence they need to hit the slopes or the parks. Vail instructors are experts at teaching technique, so kids improve instantly. It’s the next best investment to college! Private lessons, groups, and specialty programs are all available. For more information or to book a lesson, call 800-475-4543.
KIDS CAMPS: SKI AND SNOWBOARD
These fun five-day camps for intermediate and above skiers (levels 5–9) and advanced-beginner snowboarders (levels 3–9) run Monday through Friday at the Golden Peak Kids Center (the December camp runs Tuesday through Saturday). Book through Children’s Online Reservations or on site; drop-ins will be accommodated on a space-available basis, pro-rated by day.
ICE SKATING
Swirl and twirl at the new outdoor ice rink at Vail Square in Lionshead next to the Eagle Bahn Gondola. Skate rentals are available.

AMENITIES
The Antlers at Vail are your second home, a great Vail lodging experience for family and friends in a relaxed mountain setting. Condos range from studios to four bedrooms and are complete with full-size, fully equipped kitchens, gas fireplaces, and private balconies. Each unit also has the following amenities: humidifier, hair dryer, iron and ironing board, entertainment center, cable TV with HBO, VCR, and CD and cassette player. Daily housekeeping is provided. The Antlers offers top-of-the-line meeting facilities as well as elegant accommodations. Other amenities include a pool, a hot tub, saunas, a conference center, a fitness room, a business center, free underground parking, and laundry facilities.

ACCOMMODATIONS
Make your reservations as soon as possible, as our room block may sell out prior to the cut-off date of January 4, 2016. After this date, reservations will be accepted at the discretion of the hotel, on a space-and-rate-availability basis. Please identify yourself as an attendee for Group Leader 151672, University of Pittsburgh, to ensure the conference rate will apply to your reservation.
Number and Size of Condos Blocked Occupancy Nightly Rate
• one bedroom/1 bath 1-2 $444
• one bedroom/1 bath w/bunks 1-2 $443
• two bedroom/1 bath 1-4 $722
• three bedroom/2 bath 1-6 $843
• three bedroom/3 bath 1-6 $969
• four bedroom/4 bath 1-8 $1187

Please note: Rates apply to course attendees only!
Call 800-843-8245 or 970-476-2471 for hotel reservations, or register online at antlersvail.com (go to “book it,” click on “group,” and enter the group code). Please remember when calling to identify yourself as an attendee for “group,” and enter the group code).

AMENITIES
The Antlers at Vail resort and conference center
The Antlers at Vail lodge is renowned for its friendly atmosphere and is located on Gore Creek just 150 yards from the Vail Gondola, Vail ski school, and numerous hiking trails. A $20 million expansion was finished just a few years ago and includes 22 new condominiums/lodging units, a brand-new lobby with courtyard entrance, new conference facilities, an exercise room, a new pool area, a business center, and heated parking. In 2004, the Antlers at Vail was named the Vail Valley Business of the Year.
KANAL'S MAGNETIC RESONANCE PHYSICS COURSE • January 17–21, 2016 • ANTLERS AT VAIL

THREE EASY WAYS TO REGISTER:

PHONE: 412-647-3510   FAX: 412-647-0738
MAIL: University of Pittsburgh Department of Radiology
      ATTN: Robin DeAngelo
      Forbes Tower Plaza Level, 3600 Forbes at Meyran Ave.
      Pittsburgh, PA 15213

ATTENDEE INFORMATION:

NAME: ____________________________ ____________________________

☐ MD    ☐ DO    ☐ PhD    ☐ RT    ☐ RN    ☐ Other

Last five digits of Social Security # (for CME/CEU credits) ________

OFFICE INFORMATION:

Institution/Company
Mailing Address
City     State     Zip
Phone
Fax
E-mail Address

HOME INFORMATION:

Mailing Address
City     State     Zip
Phone
Fax
E-mail Address

Subspecialty: ____________________________

I have worked with MRIs for _______ years _______ months

How did you hear about the course? ____________________________

COST: $1,295
Physicians, Scientists, and Industry Representatives

COST: $950
Residents/Fellows in Training, Technologists, and Nurses

*Return completed form with full payment by check, money order, or credit card. Payment must be made in U.S. funds, drawn on a U.S. bank only, and made payable to Center for MR Education.

PAYMENT INFORMATION:

Registrations will not be processed without payment.

AMOUNT: $________

☐ CHECK ENCLOSED (make check payable to Center for MR Education)
☐ VISA    ☐ MASTERCARD    ☐ AMERICAN EXPRESS    ☐ DISCOVER

CARD NUMBER: ____________________________

EXP. DATE: ____________________________ CARD SECURITY CODE: ____________________________

Cardholder Name (as it appears on card)
Cardholder Billing Address
City     State     Zip

Signature: ____________________________
Date: ____________________________

NOTE: Registration is confirmed and processed when payment is received. Confirmation will be e-mailed after registration is processed.

CANCELLATION POLICY:
All cancellation requests must be made in writing.
1. Cancellations received in writing on or before December 30, 2015, will receive a full refund.
2. Cancellations received in writing after December 30, 2015, but before January 4, 2016, will receive a refund of 50% of the full course tuition.
3. No refunds or credits will be available on or after January 4, 2016. No exceptions will be made.

MORE INFORMATION:
Robin DeAngelo, Education Coordinator
deangelora@upmc.edu
mredu.health.pitt.edu
PHONE: 412-647-3510
FAX: 412-647-0738