Accreditation: Offers up to 24 hours of Technologist Credit

This program has been submitted for approval at 24.0 hours of Category A CE credit (evidence of continuing education) by the Section for Magnetic Resonance Technologists (SMRT). The Registry Review session (Nov 3 - 5) will offer up to 20.5 credit hours. The Assessment Quiz & Review session (Nov 5) will offer up to 3.5 credit hours. In order to obtain the maximum credit hours offered (24.0), you must attend ALL presentations on all three days. Guidelines approved by the SMRT verifying attendance for each lecture will be followed and a certificate of attendance will be issued to each qualified attendee by Northwest Imaging Forums, Inc. and mailed after the course.

Educational Objectives & Course Description

MRI is a complex modality taking advantage of the magnetic properties of hydrogen, which is abundant in human tissues. This course is designed as an intensive and comprehensive review for those technologists preparing for the ARRT advanced certification exam in MRI. The content is selected to mirror a large portion of the ARRT published exam specifications (with the exception of clinical requirements and anatomy). Additionally, this program is designed for the radiologic technologist who is beginning to work in MRI or has been working in MRI but has never had any formal education in the basic principles of MRI.

In general terms, following this course, the technologist should be able to:
• Understand the basic principles behind the production of an MR signal from hydrogen
• Define T1 relaxation, T2 relaxation and Proton Density
• Understand how those intrinsic properties of tissues effect image contrast and how to control the MR image contrast using the available sequence parameters
• Understand the basic differences between the major MR pulse sequences and know the main clinical utilities of each
• Understand the basic concepts of MR data acquisition (image formation)
• Understand the basic concepts of fast imaging / acquisition techniques
• Recognize various MR artifacts, understand their cause and methods for managing such artifacts
• Understand how sequence parameters effect the various components of MR image quality and know how to manipulate these sequence parameters to optimize MR image quality for various clinical situations
• Explain the major differences between the commonly used techniques for acquiring MR Angiography exams
• Understand how MRI is used to assess diffusion and perfusion abnormalities in the brain

Educational Objectives & Course Description

• Preparing Yourself for the Exam / 20.5 hrs.
• Assessment Quiz & Review / 3.5 hrs.

This program will satisfy the ARRT requirement for structured education.

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We will meet in the fabulous Hyatt Regency Dulles. Live, work and be yourself at our inviting, contemporary Herndon hotel near Washington Dulles International Airport and just a short metro ride away from all the sights and scenes our nation’s capital. Enjoy door-to-door service with our complimentary airport shuttle, which also runs by the bustling Reston Town Center. Ensure your travel is relaxing and effortless with our newly renovated rooms, inviting atmosphere, and approachable staff always here to help.

Whether you are here to work or play, Hyatt Regency Dulles is designed to meet the needs of the modern traveler. Our hotel has free Wi-Fi so that you can stream movies, read your email or finish a last minute project. Our luxury guestrooms and suites come with a plush Hyatt Grand Bed® and a 37” HDTV. You can find anything you need at your fingertips, from our StayFit™ Gym and indoor swimming pool to our restaurant, Lobby lounge, and coffee bar.

Room Reservations: We have been given special reduced sleeping room rates at the Hyatt Regency Dulles of $99.00 per night plus tax during dates of the conference. You should contact the Hyatt Regency Dulles by dialing 703 713 1234 and refer to Group Code: Northwest Imaging Forums. We urge you to make reservations by phone or on the web at https://aws.passkey.com/go/NWImagingForums, at your earliest convenience. The Cutoff Date is 10/12/2017 or when our room block becomes full (whichever comes first).
Bill Faulkner is currently working as an independent consultant with his own company, William Faulkner & Associates, providing MRI education and operations consulting. His clients have included Philips Medical Systems, GE Healthcare, ONI Medical Systems, MRI Devices (Invivo), Bracco Diagnostics, Medtronic and other major vendors.

Bill has been teaching a Basic MRI course in Chattanooga, TN for over 20 years and has been holding MRI registry review programs for more than 17 years (www.t2star.com). He also serves as the Director of Education at Chattanooga Imaging Systems, GE Healthcare, ONI Medical Systems, MRI Devices (Invivo), Bracco Diagnostics, Medtronic and other major vendors.

Bill has been voted Most Effective Radiologic Technologist Educator by on-line voting at AuntMinnie.com and was awarded the Cronau-Kessel award for his contributions to MR technologist education at the SMRT 2005 Annual Meeting in Miami.

**Testimonial**

I have forwarded my good news to my fellow students and instructors and have advised them to take your lecture as well as use your review material. It was the best money that I had spent and the best entertainment that I have ever had in a conference. Thank you Cindy Besteman RT (R) (M) (CT) (MR)

Hello Mr Faulkner, I attended your MR registry review earlier this month in Vegas. I passed my exam on 3/22 and owe it all to you! I increased my score 9%. You have a great gift in being able to teach the material. You also have helped change hundreds if not thousands of lives through your teachings by helping people have confidence. Thank you so much from me and my family!! I will see you guys again for ct. Thanks again Brad

Hey Bill, I was at your review in Orlando a few weeks ago. What a difference it made. I made a 90 on my test. Thanks for all your help, Karen Williams

Hey Bill, I attended your MR registry review earlier this month in Vegas. I passed my exam on 3/22 and owe it all to you! I increased my score 9%. You have a great gift in being able to teach the material. You also have helped change hundreds if not thousands of lives through your teachings by helping people have confidence. Thank you so much from me and my family!! I will see you guys again for ct. Thanks again Brad

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**Program Format**

**Preparing for the Exam (20.5 hours)**

**Friday 11/3 (9.0 hours)**

7:30 Registration Desk Opens - Coffee, Tea & Pastries
8:30 Opening Announcements
8:35 Principles of Magnetism / Introduction to MR Equipment
9:25 Basic Principles of MRI
10:15 Coffee Break
10:35 Production of an MR Signal
11:25 Introduction to MR Pulse Sequences
12:15 Lunch on Your Own
1:25 MR Image Contrast Control
2:15 Spin Echo and Inversion Recovery
3:05 Coffee Break
3:25 Gradient Echo Imaging : Part I
4:15 Gradient Echo Imaging : Part II
5:05 End of Day

**Saturday 11/4 (8.0 hours)**

7:30 Registration Desk Opens - Coffee, Tea & Pastries
8:30 Announcements
8:35 MR Contrast Agents
9:25 Gradient Magnetic Fields
10:15 Coffee Break
10:35 Spatial Encoding Basics
11:25 Advanced Data Acquisition Techniques
12:15 Lunch on Your Own
13:05 Fast Scanning Techniques
2:15 MR Image Quality Issues
3:05 Coffee Break
3:25 Diffusion / Perfusion Imaging
4:15 Studying Anatomy
5:05 End of Day

**Lecture Content Based on Current ARRT Content Specifications**

**Sunday 11/5 (4.5 hours)**

7:30 Registration Desk Opens - Coffee, Tea & Pastries
8:00 Announcements
8:05 MRA Overview : Time of Flight & Phase Contrast
8:55 Contrast Enhanced MRA
9:45 Coffee Break
10:05 MR Safety Part 1
10:55 MR Safety Part 2
11:45 Q & A with Bill & Closing Thoughts
12:15 End of Registry Preparation Session

**Optional Attendance Session**

**Assessment Quiz : Review and Discussion (3.5 hours)**

**Sunday 11/5 (3.5 hours)**

1:30 Math Calculations for MRI: Practice Makes Perfect
2:00 Walking Through an Assessment Quiz One Question at a Time : Part I
3:15 Coffee Break
3:35 Walking Through an Assessment Quiz One Question at a Time : Part II
4:50 End of Conference