Hands-on Clinical fMRI and Diffusion Tractography

May 3-5, 2017
24 CME and 3 SAM credits
Course Director: Andrei I. Holodny, M.D.

For further information:
Andrei Holodny, MD
fmri.ah@gmail.com
http://www.fmri-course.com

Conference Location
Weill Greenberg Center
Weill Medical College of Cornell University
1305 York Avenue (at 70th Street)
New York, NY 10065
Course Overview

During most MRI procedures, there is no need for interaction between the administrator of the test and the patient. The situation is quite the opposite in functional MRI (fMRI), where the neurological status of the patient must be assessed; an appropriate paradigm must be selected based on the neurological assessment and prior MRI examinations. Further, the paradigm must be delivered to and successfully performed by the patient while in the MRI machine. In addition, there is a rather complicated analysis of the fMRI and diffusion tractography data, which must be performed and assessed. How to properly perform these tasks is often not addressed during residency and fellowship training or in annual scientific society meetings.

Target Audience

Clinicians involved in fMRI, including neuroradiologists, neurosurgeons and neurologists.

Educational Objectives

Understand the fundamental principles behind fMRI and diffusion tractography
Choose the optimal fMRI paradigms appropriate for the patient and clinical situation
Deliver fMRI paradigms correctly and monitor the patient for adequate compliance
Hands on experience so that the attendee will be able to analyze fMRI and diffusion tractography
Understand how data is delivered to a neurosurgical navigational system and used by the neurosurgeon
Avoid pitfalls in the interpretation of clinical fMRI and diffusion tractography
Optimize fMRI billing and coding

Accreditation Statement:

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the International Institute for Continuing Medical Education, Inc. and fMRI Consultants LLC. The International Institute for Continuing Medical Education Inc. is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement:

The International Institute for Continuing Medical Education, Inc. designates this live activity for a maximum of 24 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Faculty Disclosure:

It is the policy of the International Institute for Continuing Medical Education, Inc. to comply with the Accreditation Council for Continuing Medical Education (ACCME) Standards for Commercial Support to CME activities. All faculty participants in iiCME programs are required to disclose to the program audience any real or apparent conflict(s) of interest related to this meeting or its content. Faculty disclosure forms are included in the course syllabus for participating review. In addition, faculty disclosure will be made at the beginning of each lecture.
Course Director

Andrei I. Holodny, MD  
Chief of Neuroradiology and Director of the fMRI Laboratory  
Memorial Sloan-Kettering Cancer Center  
Professor of Radiology, Weill Cornell Medical College  
Founding President of the ASFNR

Course Co-Director

Douglas Ballon, PhD  
Professor of Medical Physics  
Weill Cornell Medical College

Faculty

Cameron Brennan, MD  
Attending Neurosurgeon, Memorial Sloan-Kettering Cancer Center  
Assistant Professor of Neurosurgery, Weill Cornell Medical College

Robert Young, MD  
Attending Neuroradiologist, Memorial Sloan-Kettering Cancer Center  
Associate Professor of Radiology, Weill Cornell Medical College

A John Tsiouris, MD  
Associate Professor of Clinical Radiology  
Weill Cornell Medical College

Kyung Peck, PhD  
Associate Professor, Chief Physicist, fMRI Laboratory  
Memorial Sloan-Kettering Cancer Center

Rebecca Jones, Ph.D  
Assistant Professor of Neuroscience in Psychiatry  
Weill Cornell Medical College/NY Presbyterian Hospital  
Center for Autism and the Developing Brain

Nicole Brennan, BA  
Neurodiagnostic fMRI Specialist, fMRI Laboratory  
Memorial Sloan-Kettering Cancer Center
Scientific Agenda

May 3

<table>
<thead>
<tr>
<th>time</th>
<th>Event Description</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>8</td>
<td>Introduction to fMRI</td>
<td>A. Holodny</td>
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<tr>
<td>9:30</td>
<td>Patient preparation</td>
<td>N. Brennan</td>
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<tr>
<td>10:00</td>
<td>Functional brain anatomy</td>
<td>A. Holodny</td>
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<tr>
<td>11:00</td>
<td>White matter tract anatomy</td>
<td>R. Young</td>
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<tr>
<td>11:30</td>
<td>fMRI paradigm design</td>
<td>N. Brennan</td>
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<tr>
<td>1</td>
<td>Lunch</td>
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<tr>
<td>2</td>
<td>fMRI hardware</td>
<td>K. Peck</td>
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<tr>
<td>3-5</td>
<td>fMRI at the scanner</td>
<td>N. Brennan</td>
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May 4

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<th>Event Description</th>
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<tbody>
<tr>
<td>8</td>
<td>Methods of analysis</td>
<td>K. Peck</td>
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<td>9</td>
<td>Diffusion tractography</td>
<td>R. Young</td>
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<td>10</td>
<td>Fact/artifact</td>
<td>A. Holodny</td>
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<tr>
<td>11:00</td>
<td>Traumatic brain injury</td>
<td>A.J. Tsiouris</td>
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<td>12:30</td>
<td>Resting State fMRI</td>
<td>A. Holodny</td>
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<td>Lunch</td>
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<td>2-5</td>
<td>practical fMRI data analysis</td>
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May 5

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<td>8:00</td>
<td>Pediatric fMRI</td>
<td>R. Jones</td>
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<tr>
<td>9:00</td>
<td>Neurosurgical applications-fMRI</td>
<td>C. Brennan</td>
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<tr>
<td>10:30</td>
<td>Case review and SAM</td>
<td>R. Young</td>
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<td>12</td>
<td>Case review</td>
<td>N. Brennan</td>
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<tr>
<td>1</td>
<td>Lunch</td>
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<td>2</td>
<td>Case review</td>
<td>A. Holodny</td>
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<td>2:30</td>
<td>Coding and billing</td>
<td>A. Holodny</td>
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<td>3</td>
<td>Brain MR perfusion</td>
<td>R. Young</td>
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<td>3:30</td>
<td>Spine MR perfusion</td>
<td>A. Holodny</td>
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<td>4</td>
<td>Questions and answers</td>
<td>Faculty</td>
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<td>5</td>
<td>course ends</td>
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Registration

Registration Fee is $2000. Registration is limited to enhance the individualized attention from the faculty and hands-on experience, so please register as soon as possible.

Two options to register and pay:

**Registration and Pay by Check:**

Please complete the form below and return by fax (917-432-2345) or e-mail fmri.ah@gmail.com

Last Name First Name MI Highest Degree
Department (include box no.)
Institution
Street
City State/Foreign Country Zip or Mail Code
E-mail address
Daytime Phone (with area code)
Fax (with area code)

**Fees:** $2000

Please make check payable to:
FmRI Consultants LLC
63 Prospect Street
Demarest, NJ 07627-1023

**Registration and Pay by PayPal:**

Go to: [http://www.fmri-course.com/apps/webstore/products/show/6595902](http://www.fmri-course.com/apps/webstore/products/show/6595902)

Or go to our webpage: [http://www.fmri-course.com/](http://www.fmri-course.com/)

**For further information please contact:**
Andrei Holody, MD
fmri.ah@gmail.com

Full refunds, less $200 administrative fee, will be granted to those providing written notification of withdrawal with at least 30 days notice. After that date, no refunds will be given.
Course Hotel

We have been able to secure reduced rates at the:

BENTLEY HOTEL

500 EAST 62ND STREET, NEW YORK NY 10065

PHONE: 212.644.6000 | FAX: 212.207.4800

Rate for Superior King $259.00 plus tax per night. This is at a substantial discount. WIFI COMPLIMENTARY.


These rates are available for the course dates (May 2-6, 2017).

The cut off date to book will be April 4, 2017.