

# Attend the only educational opportunity dedicated to advanced practice Y-90 treatments and those seeking to qualify for Authorized User (AU) status.

## NEW FOR 2014

SIR provides the best of two premier learning activities—Y-90/AU and Y-90/Advanced—into a new, three-day complete course designed with lectures, panel discussions, case scenarios and hands-on workshops on the treatment of hepatic malignancies.



## WHY ATTEND:

- ▶ SIR's curriculum is the most comprehensive and challenging radioembolization learning experience available to IR practitioners and trainees.
- ▶ Launch your Y-90 IO practice or add an exciting new tier to an existing practice.
- ▶ Qualify to apply for Authorized User (AU) status.
- ▶ Already an experienced AU? The Advanced portion can help you strengthen and grow your practice.
- ▶ Attended a previous Y-90 course? Hone your techniques, learn about current algorithms and outcomes, and benefit from the latest, state-of-the-art Y-90 literature.
- ▶ Trainees may attend the complete course at discounted rates.

## Y-90 ACCREDITATION INFORMATION

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education (ACCME). The Society of Interventional Radiology (SIR) is accredited by the ACCME to provide medical education for physicians.

The Society of Interventional Radiology designates this live activity for a maximum of 21.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This program will be approved for self-assessment module (SAM) credit by the Society of Interventional Radiology (SIR). SIR is awarded Deemed Status by the American Board of Radiology (ABR). The SAMs offered at this live meeting meet the ABR's criteria for a self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification (MOC) Program. More information about SAM approval will be available soon.

Feb. 6–9, 2014

Scottsdale, Arizona

*Fairmont Scottsdale Princess*

## PROGRAM COORDINATORS

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SOCIETY OF  
INTERVENTIONAL  
RADIOLOGY

*Enhanced care through advanced technology®*



**SPACE IS LIMITED, SO RESERVE YOUR SPOT TODAY.**

**Register by Jan. 5, 2014, and save \$200.**

Visit [www.SIRweb.org/Y-90](http://www.SIRweb.org/Y-90) today!

**N**EW in 2014, SIR has combined two popular and unique learning experiences, the Y-90: Are yoU Ready course and Y-90: The Advanced course, into one comprehensive program—*Y-90: The Complete Course*.

**Ideal for those seeking AU status**, all relevant course components have been streamlined and combined with advanced case discussion presented by expert faculty for the ultimate Y-90 immersion experience. **For the experienced practitioner**, registration is available for the advanced portion only, featuring the most current literature review and interactive case discussion. Whether you have attended one of these programs previously, or if you are a first-time attendee, ***Y-90: The Complete Course* offers a rigorous, interactive learning environment that cannot be found in any other venue.** All previous courses have filled early, so don't delay in registering for this popular meeting.

Review the following information carefully for information pertaining to the *Complete* and *Advanced Discussion* only course offerings.

## COURSE DESCRIPTION

This three-day course, designed with lectures, panel discussions, case scenarios and hands-on workshops, will offer the most in-depth, comprehensive and challenging curriculum available for clinical teams interested in initiating, developing or strengthening their practice in this exciting aspect of interventional oncology. The online precourse work and the one day Authorized User (AU) portion of this course incorporate the requisite training and testing for official SIR validation of the IR attendee as qualified to apply for AU status for intra-arterial Y-90 in the treatment of hepatic malignancies.\* The following two day Advanced Y-90 portion of the course is open to both the AU participants and also more experienced users as a standalone course which will present more complex topics, including challenging anatomy, therapy for specific primary and secondary hepatic malignancies—including radioembolization in combination with other therapies, retreatment, postprocedural care and follow-up, and management of complications.

## TARGET AUDIENCE

*Y-90: The Complete Course* will provide focused educational opportunities for interventional radiologists and trainees interested in initiating, developing, or strengthening their practice in using intra-arterial Y-90 in the treatment of hepatic malignancies.

## LEARNING OBJECTIVES

### **Authorized User (AU) Educational Objectives:**

Upon completion of the AU portion of this course, the attendee should be able to:

- ▶ Compare and contrast current device platforms
- ▶ Explore trends in patient selection and outcome prediction and discuss the relative importance of patient age, performance status, degree of cirrhosis and cancer stage
- ▶ Review information on the treatment algorithm, the rationale for the two-stage approach, device delivery strategies and microcatheters, coiling and embolization techniques and describe issues in postprocedural care and follow-up

\* The curriculum presented in the AU (Feb. 6-7) portion of the 2014 Y-90: The Complete Course, which includes online precourse work, live AU didactic lectures and advanced case discussion, has been designed with the NRC requirements for AU status in mind, and satisfies many of those requirements. For more detailed information see the NRC Y-90 Guidance Document: <http://pbadupws.nrc.gov/docs/ML1217/ML12179A353.pdf>.

- ▶ Describe best practice in Y-90 radiation safety and dose management
- ▶ Describe advanced radiation physics and various methods of calculation of dosimetry and how they vary between available platforms
- ▶ Demonstrate an advanced knowledge of Y-90 administration procedure, including familiarity with both available administration systems
- ▶ Describe responsibilities and significance of AU status in the comprehensive management of radioembolization and identify the importance of a robust radiation safety program
- ▶ Identify state and institutional requirements for becoming an AU and demonstrate comprehension of the elements and significance of a robust radiation safety program as it relates to intra-arterial Y-90 therapy
- ▶ Discuss appropriate follow-up and patient prognosis after radioembolization

### **Advanced Y-90 Educational Objectives:**

Upon completion of the advanced portion of this course, the attendee should be able to:

- ▶ Discuss the current algorithms and outcomes for treatment of primary and secondary hepatic malignancies inclusive of surgical, medical and transarterial therapies and explore the ideal sequencing of radioembolization in those algorithms
- ▶ Demonstrate hands-on advanced microcatheterization and embolization skills pertinent to device delivery
- ▶ Describe advanced radioembolization techniques
- ▶ Identify therapies used in combination with radioembolization for hepatic malignancy
- ▶ Explain advanced dosimetry and treatment concepts
- ▶ Summarize a state-of-the-art literature review of Y-90 radioembolization

#### **Y-90: The Complete Course Online Meeting Hub**

This resource, exclusively for course participants, provides you with the course agenda, presentation handouts, reference materials and other resources. Internet access will be provided in the meeting room to access the Web site, so we encourage you to bring your laptop or tablet device. **Access to the Y-90 Meeting Hub is provided to attendees for one year, extending your learning experience even after the meeting ends.**

## **Y-90: THE COMPLETE COURSE FEATURES**

### **Precourse Work**

Registrants of the Complete Course will receive access to, and are required to complete, an online precourse activity that allows you to review selected lectures from the 2011 Y-90 course proceedings and take an assessment prior to attendance at the live meeting. Completing this activity not only allows more time for in-depth conversation on-site but also allows the course coordinators and faculty to tailor the educational programming for the AU course to the needs of the learners based on the online assessment scores—allowing for a unique and customized experience for AU attendees. Some topics covered in the pre-course activity include:

- ▶ Basic Principles of Radiation Physics - Fundamentals of Radiation Physics, Y-90 Physics, Brachytherapy

- ▶ Radiation Biology: Basic Radiation Concepts, Radiation Chemistry, Hepatic Radiation Biology
- ▶ Radiation Safety Issues Treatment and Follow-up

**The precourse work is mandatory for registrants of the Complete Course.** Materials will be made available in early December 2013, and the activity must be completed before the start of the meeting on Feb. 6, 2014.

### **Session Assessments**

To highlight the key topics presented in each session, a session assessment will be given via audience response system (ARS) keypads at the end of each session. The purpose of the assessment is to reinforce the key points made throughout the course and for attendees to assess their own learning.

Upon completion of this course, a Cumulative Session Assessment will be given to document mastery of the topics learned. This final assessment will be given on-site. Attendees' answers to these questions will be graded, with subsequent recognition of accomplishment. The Cumulative Session Assessment will be offered on Friday, Feb. 7, at 11:30 a.m.

## **Y-90: ADVANCED DISCUSSION FEATURES**

### **Challenge the Experts**

This portion of the Y-90 course will provide attendees with a unique opportunity to interact with experts in Y-90. Led by expert facilitators, course content will include challenging anatomy, in-depth discussions on the most commonly encountered disease conditions (HCC, CRC, NET, breast, cholangio, melanoma). Other advanced topics will include radioembolization in combination with other therapies—retreatment, postprocedural care and follow-up, and management of complications. Since attendee participation is an integral component of this course, all attendees should prepare their own cases to challenge the experts. Show your own case that is actively in the stages of Y-90 workup!

### **SIR PARTICIPATION POLICY**

Society of Interventional Radiology staff, members, nonmembers and event participants must be treated with respect in all interactions (including but not limited to in-person, telephone or via written communications). All agree to conduct themselves in a manner appropriate for health care professionals. Staff offices and the press room at meeting sites are reserved for official business only; food and beverage service in these areas are reserved for staff and volunteer members. If a staff member believes that these rules have been violated or acceptable social decorum has otherwise been breached, the staff member shall contact one of the designated individuals in the volunteer leadership to help with the situation. If the member in question believes that he/she has been wrongly accused of inappropriate behavior, he/she shall also contact the designated physician leadership to help with the situation.

### **PHOTO DISCLAIMER POLICY**

Registration and attendance at, or participation in, the Society of Interventional Radiology's meetings and other activities constitute an agreement by the registrant/attendee to SIR's use and distribution (both now and in the future) of the registrant's or attendee's image or voice in photographs, videotapes, electronic reproductions and audio tapes ("images/recordings") of such events and activities. Registrant/attendee acknowledges and agrees that SIR's use or distribution of such images/recordings may be worldwide and in any medium; that SIR may identify registrants or attendees in such images or recordings; and that registrants/attendees have no right to any compensation for such uses.

# PROGRAM

Please note that the program is subject to change.

Thursday, February 6, 2014

## AUTHORIZED USERS (AU) COURSE

1 p.m. Welcome and Introduction

### AU Requirements and Precourse Work Review

1:05 p.m. Requirements/Nuclear Regulatory Commission (NRC) Update

1:15 p.m. Online Precourse Work Review

2 p.m. **Q&A and Assessment (Precourse Work)**

### Comparing Y-90 Devices

2:30 p.m. Physical Differences

2:45 p.m. Administration Differences

3 p.m. *Break and Visit Exhibits*

### Y-90 Dosimetry Simplified

3:30 p.m. SIR-Spheres

3:45 p.m. TheraSphere

4 p.m. Written Directive (Case Examples)

4:15 p.m. **Q&A and Assessment (Devices and Dosimetry)**

4:45 p.m. *Break and Visit Exhibits*

5 – 6:30 p.m. Coils and Wires Workshop

## Friday, February 7, 2014

### Strategies for Success

8 a.m. Keys to Practice Development

8:15 a.m. Patient Selection for Success

### Standard of Care Therapies

8:30 a.m. Diagnosis of HCC and Guidelines

8:50 a.m. Treatment Options for HCC/BCLC

9:10 a.m. Treatment Options for mCRC

9:30 a.m. **Q&A and Assessment (Standard of Care Therapies)**

10 a.m. *Break and Visit Exhibits*

### Patient Evaluation

10:30 a.m. Pretreatment Angiography and MAA Shunt Study for Y-90

10:45 a.m. Complex Anomalies

11 a.m. Side Effects and Complications—What to Expect

11:15 a.m. **Q&A**

11:30 a.m. **Final Assessment  
AU Course Adjourns**

12 p.m. *Lunch and Visit Exhibits*

## ADVANCED Y-90 COURSE

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### Advanced Concepts in Y-90

1 p.m. Treating High-risk Patients

1:10 p.m. Coil Embolization Strategies

1:20 p.m. Antireflux Techniques

- 1:30 p.m.            Redistribution
- 1:40 p.m.            Radiation Segmentectomy/Lobectomy
- 1:50 p.m.            High Lung Shunting
- 2 p.m.                Avoiding (and Recognizing) RILD
- 2:10 p.m.            When to Re-treat With Y-90
- 2:20 p.m.            Y-90 + Systemic Therapy – Best Practice
- 2:30 p.m.            **Q&A**
  
- 2:45 p.m.            Break and Visit Exhibits*

### **Y-90 and Imaging**

- 3:15 p.m.            Cone Beam CT
- 3:30 p.m.            PET/Y-90
- 3:45 p.m.            Assessing Outcomes
- 4 p.m.                **Q&A**

### **Health Policy and Economics**

- 4:15 p.m.            Professional Coding and Reimbursement Strategies
- 4:30 p.m.            Cost Effectiveness
- 4:45 p.m.            **Q&A**
- 5 – 6 p.m.            Corporate Sponsored Y-90 Delivery Workshops  
(non-CME)
  
- 6:30 p.m.            Networking Reception*

## Saturday, February 8, 2014

### **Hepatocellular Carcinoma (HCC)**

- 8 a.m.                Current Literature Review
- 8:20 a.m.            Status of HCC Y-90 Trials

# PROGRAM

8:30 a.m. HCC Case-based Discussion

9:15 a.m. **Q&A and Attendee Case Presentation**

9:45 a.m. *Break and Visit Exhibits*

## **Metastatic Colorectal Cancer (MCRC)**

10:15 a.m. Current Literature Review

10:35 a.m. Status of MCRC Y-90 Trials

10:45 a.m. MCRC Case-based Discussion

11:30 a.m. **Q&A and Attendee Case Presentation**

12 p.m. *Lunch and Visit Exhibits*

## **Neuroendocrine Tumors (NET)**

1 p.m. Current Literature Review

1:15 p.m. Status of NET Y-90 Trials

1:25 p.m. NET Case-based Discussion

1:45 p.m. **Q&A and Attendee Case Presentation**

## **Breast**

2:15 p.m. Current Literature Review

2:30 p.m. Breast Case-based Discussion

2:45 p.m. **Q&A and Attendee Case Presentations**

3 p.m. *Break*

## **Cholangiocarcinoma**

3:30 p.m. Current Literature Review

3:45 p.m. Status of Cholangiocarcinoma Y-90 Trials

3:55 p.m. Cholangiocarcinoma Case-based Discussion

4:15 p.m. **Q&A and Attendee Case Presentations**



## Melanoma

- 4:30 p.m. Current Literature Review
- 4:45 p.m. Melanoma Case-based Discussion
- 5 p.m. **Q&A and Attendee Case Presentations**
- 5:30 p.m.–6:30 p.m. Corporate Sponsored Y-90 Delivery Workshops (non-CME)

# Sunday, February 9, 2014

## Other Mixed Neoplasia

- 8 a.m. Other Mixed Neoplasia Case-based Discussion
- 8:45 a.m. **Q&A and Attendee Case Presentations**

## Morbidity and Mortality

- 9 a.m. Managing Unwanted Effects of Radioembolization
- 9:15 a.m. Mitigating Complications: Putting It All Together
- 9:30 a.m. Quality of Life with Radioembolization
- 9:45 a.m. **Q&A**
- 10 a.m. *Break*

## Case-Based Review

- 10:30 a.m. Case Presentations by Faculty
- 11:30 a.m. Case Presentations by Attendees
- 12 p.m. **Y-90: The Complete Course Adjourns**

# PROGRAM

## Y-90: THE COMPLETE COURSE INVITED FACULTY

**Aravind Arepally, MD, FSIR**  
Piedmont Healthcare  
Atlanta, Ga.

**Daniel B. Brown, MD, FSIR**  
Vanderbilt University Medical Center  
Nashville, Tenn.

**David Liu, MD, FSIR**  
University of British Columbia-UCLA  
Point Roberts, Wash.

**Edward Kim, MD**  
Mt. Sinai Medical Center  
New York, N.Y.

**Charles E. Ray Jr., MD, PhD, FSIR**  
University of Colorado Denver  
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**Riad Salem, MD, MBA, FSIR**  
Northwestern Memorial Hospital  
Chicago, Ill.

## CORPORATE SUPPORTERS

*SIR thanks and recognizes the Y-90 Meeting Benefactor Level supporters:*



To see an updated listing of corporate supporters, go to [www.SIRweb.org/Y-90](http://www.SIRweb.org/Y-90).

## Y-90: THE COMPLETE COURSE ON-DEMAND

### *Special Offer for Meeting Attendees*

*Y-90: The Complete Course On-demand* provides access to feature-rich video recordings from SIR's 2014 *Y-90: The Complete Course*. This online product, accessible on both desktop and mobile devices, includes video of the slide presentations and downloadable PDF handouts and audio files. Premeeting registrants of the course receive a special savings of \$50 off the on-site attendee price, and more than \$1,000 over the price for those who do not attend the meeting! *Y-90: The Complete Course On-demand* is eligible for SA-CME credit toward MOC. Purchase online with registration at [www.SIRweb.org/Y-90](http://www.SIRweb.org/Y-90).

#### **Attendee Pricing**

Pre-meeting: \$99  
Onsite: \$149  
Post-meeting: \$199

#### **Non-attendee Pricing**

SIR Member: \$1,499  
Standard Price: \$3,000

# REGISTRATION

**Registration is limited—act now to reserve your space!**

To register, go to **[www.SIRweb.org/Y-90](http://www.SIRweb.org/Y-90)**.

If you prefer to register via a paper form, you can download a copy at [www.SIRweb.org/Y-90](http://www.SIRweb.org/Y-90) or contact Ashley Cole at [acole@SIRweb.org](mailto:acole@SIRweb.org).

## REGISTRATION RATES

**The Complete Course:** Registration to the Complete Course includes: access to the online Authorized User (AU) prerequisite activity and registrations to the AU portion of the course, AU hands-on workshops, and the Advanced Y-90 Discussion portion of the course.

	ON or BEFORE Jan. 5, 2014	AFTER Jan. 5, 2014
<input type="checkbox"/> SIR member	\$1,395	\$1,595
<input type="checkbox"/> SIR resident or fellow-in-training	\$995	\$1,195
<input type="checkbox"/> Physician nonmember	\$1,995	\$2,195

**Advanced Y-90 Discussion ONLY:** Registration to the Advanced Y-90 Discussion includes registration to only the two-day Advanced Y-90 Discussion portion of the course.

	ON or BEFORE Jan. 5, 2014	AFTER Jan. 5, 2014
<input type="checkbox"/> SIR member	\$495	\$695
<input type="checkbox"/> Physician nonmember	\$1,095	\$1,295

## CANCELLATION POLICY

Due to high demand and the limited number of possible attendees for this course, SIR must adhere to a strict registration cancellation policy. Cancellations received in writing by Jan. 5, 2014, will be refunded less a \$100 administrative fee. **No refunds will be given after Jan. 5, 2014.** Refunds or credits will not be given for failure to attend, late arrival, unattended events or early departure. Hotel reservations, cancellations and/or changes must be made directly with the hotel. All refunds must be submitted in writing to:

**Society of Interventional Radiology**

Attention: Education Department  
3975 Fair Ridge Drive, Suite 400 North  
Fairfax, VA 22033  
Phone: (703) 691-1805  
Fax: (703) 691-1855  
[Education@SIRweb.org](mailto:Education@SIRweb.org)

## HOTEL INFORMATION

Call the Fairmont Scottsdale Princess at 1 (800) 344-4758 to reserve a room at the discounted meeting rate of \$249 per night. Please reference the **SIR Y-90 Oncology Meeting** to receive this rate. The cut-off date for reservations is **Jan. 5, 2014**.



Photo courtesy of the Fairmont Scottsdale Princess.



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