# 2018 Y-90: The Complete Course

**Program as of 11/20/2017**

**Thursday, January 11, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 am</td>
<td>Registration opens</td>
<td></td>
</tr>
<tr>
<td>7:00 am</td>
<td>Breakfast</td>
<td></td>
</tr>
</tbody>
</table>

**Historical perspectives**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Introduction</td>
<td>Aravind Arepally, MD, FSIR</td>
</tr>
</tbody>
</table>

**Physics theory**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15 am</td>
<td>Review of prerequisite work</td>
<td>Cheenu Kappadath, MD</td>
</tr>
</tbody>
</table>

**Clinical Evaluation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>History of Y90</td>
<td>Riad Salem, MD, MBA, FSIR</td>
</tr>
<tr>
<td>9:20 am</td>
<td>IO 101</td>
<td>Daniel B. Brown, MD, FSIR</td>
</tr>
<tr>
<td>9:40 am</td>
<td>Systemic Chemotherapy for CRC</td>
<td>Siddharth A. Padia, MD</td>
</tr>
<tr>
<td>9:50 am</td>
<td>Evaluating the patient for Y-90 therapy (HCC vs CRC)</td>
<td>Ricardo Paz-Fumagalli, MD</td>
</tr>
</tbody>
</table>

**10:15 am**  **Break and visit exhibits**

**Physics applied**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 am</td>
<td>SIR-Sphere – dosimetry</td>
<td>Ripal Gandhi, MD, FSVM</td>
</tr>
<tr>
<td>11:15 am</td>
<td>TheraSphere - dosimetry</td>
<td>Riad Salem, MD, MBA, FSIR</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Q&amp;A</td>
<td></td>
</tr>
</tbody>
</table>

**11:45 pm**  **Lunch and visit exhibits**

**Colorectal Cancer (CRC)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 pm</td>
<td>CRC Case discussion</td>
<td>Ryan Hickey, MD</td>
</tr>
<tr>
<td></td>
<td>How I do it- Stem to Stern</td>
<td>Ripal Gandhi, MD, FSVM</td>
</tr>
<tr>
<td></td>
<td>Simple case of CRC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complex case of CRC</td>
<td></td>
</tr>
<tr>
<td>2:00 pm</td>
<td>SIRFLOX/FOXFIRE results and discussion: pros vs. cons.</td>
<td>Daniel B. Brown, MD, FSIR</td>
</tr>
<tr>
<td>2:20 pm</td>
<td>Development in CRC Systemics (immune, etc)</td>
<td>Greg Nadolski, MD</td>
</tr>
<tr>
<td>2:35 pm</td>
<td>When not to Treat</td>
<td>Siddharth A. Padia, MD</td>
</tr>
</tbody>
</table>

**3:00 pm**  **Break and visit exhibits**

**Angiography and treatment of Y-90 patients**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:30 pm</td>
<td>Angiography Techniques</td>
<td>Paul Haste, MD</td>
</tr>
<tr>
<td>3:50 pm</td>
<td>MAA shunt study for Y-90</td>
<td>Aron Fischman, MD, FSIR</td>
</tr>
<tr>
<td>4:00 pm</td>
<td>Imaging Responses</td>
<td>Matthew S. Johnson, MD, FSIR</td>
</tr>
</tbody>
</table>
4:20 pm  Side effects and complications: what to expect and how to manage
Guy Johnson, MD

4:40 pm  Top 5 anatomical challenges and strategies to mitigate
Robert J. Lewandowski, MD, FSIR

5:00 pm  Common Questions Encountered by Patients
Nadine Abi-Jaoudeh, MD, FSIR, CCRP

5:30-6:30 pm  Corporate Y-90 delivery workshops (non-CME): TheraSphere/BTG, SIR-Spheres/Sirtex

Friday, January 12, 2018

7:00–7:45am  Corporate Breakfast Symposium: BTG (non-CME)  Robert J. Lewandowski, MD, FSIR

**Hepatocellular carcinoma (HCC)**
Moderator: Robert J. Lewandowski, MD, FSIR

8:00  HCC: Summary of treatment options  Riad Salem, MD, MBA, FSIR
8:30  How I do it- Stem to Stern
Simple case using glass  Siddharth A. Padia, MD
Simple case using resin  Aravind Arepally, MD, FSIR
Complex case using glass  Siddharth A. Padia, MD
Complex case using resin  Aravind Arepally, MD, FSIR
10:00  How I choose: Y90 vs. TACE vs. ablation  Guy Johnson, MD

10:30 am  Break and visit exhibits

11:00  Systemic therapy for HCC  Nadine Abi-Jaoudeh, MD, FSIR, CCRP
11:15  Clinical trials update for HCC (SARAH/SIRVENIB/PREMIERE, etc)  Edward Kim, MD, FSIR
11:45  Clinical trials results discussion: pros vs. cons  Siddharth A. Padia, MD
Aravind Arepally, MD, FSIR
Matthew S. Johnson, MD, FSIR

12:15 pm  Lunch

**Challenging case studies**
Moderator: Aaron Fischman, MD, FSIR
All case studies include: clinical case overview, risk profile analysis, treatment strategies, and clinical case outcomes.

1:00 pm  Scenario # 1: Compromised liver function  Paul Haste, MD
1:20 pm  Scenario # 2: High lung shunt fraction  Aaron Fischman, MD, FSIR
1:40 pm  Scenario #3: Hostile vascular anatomy  Ricardo Paz-Fumagalli, MD
2:10 pm  Scenario #4: RILD  Ryan Hickey, MD
2:30 pm  Scenario #5: Radiation Spills and Thrills  Daniel B. Brown, MD, FSIR

2:45 pm  Break and visit exhibits

**Metastatic tumors (Miscellaneous)**
Moderator: Matthew S. Johnson, MD, FSIR

3:30 pm  Breast cancer  Robert J. Lewandowski, MD, FSIR
3:45 pm  Cholangiocarcinoma  William S. Rilling, MD, FSIR
4:00 pm  Sarcoma  Matthew S. Johnson, MD, FSIR
4:15 pm  Miscellaneous Metastatic Tumor Board  William S. Rilling, MD, FSIR
Robert J. Lewandowski, MD, FSIR
Matthew S. Johnson, MD, FSIR

4: 30 pm  Workshop: coils, plugs, microcatheters and microwires
### Saturday, January 13, 2018

**7:00 am**  
**Breakfast**

**Neuroendocrine tumors (NET)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td>Summary of treatment options and how I choose: Y90 vs. embolization (bland/TACE)</td>
</tr>
<tr>
<td>8:20 am</td>
<td>Systemic therapy and PRRT for NET</td>
</tr>
<tr>
<td>8:35 am</td>
<td>NET tumor board</td>
</tr>
</tbody>
</table>

**Moderator:** William S. Rilling, MD, FSIR

**Guy Johnson, MD**

**Greg Nadolski, MD**  
**William S. Rilling, MD, FSIR**  
**Siddharth A. Padia, MD**  
**Aaron Fischman, MD, FSIR**  
**Greg Nadolski, MD**

**Advanced concepts in Y-90**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:05 am</td>
<td>Alternatives to coil embolization: redistribution, advanced embolics, and antireflux catheters</td>
</tr>
<tr>
<td>9:15 am</td>
<td>Novel platforms for radioembolization</td>
</tr>
<tr>
<td>9:25 am</td>
<td>Radiation lobectomy/contralateral hypertrophy</td>
</tr>
<tr>
<td>9:40 am</td>
<td>Evolving concepts in dosimetry</td>
</tr>
<tr>
<td>9:55 am</td>
<td>Radiation segmentectomy</td>
</tr>
</tbody>
</table>

**Moderator:** Siddharth A. Padia, MD

**Matthew S. Johnson, MD, FSIR**

**Aravind Arepally, MD, FSIR**

**Ryan Hickey, MD**

**Edward Kim, MD, FSIR**

**Robert J. Lewandowski, MD, FSIR**

**10:15 am**  
**Break and visit exhibits**

**10:30 am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 am</td>
<td>M&amp;M: cases to moan over</td>
</tr>
<tr>
<td></td>
<td>Extreme Y-90: cases to cheer for</td>
</tr>
</tbody>
</table>

**Moderator:** Aravind Arepally, MD, FSIR

**Ripal Gandhi, MD, FSVM**  
**Greg Nadolski, MD**  
**Ricardo Paz-Fumagalli, MD**  
**Paul Haste, MD**  
**Nadine Abi-Jaoudeh, MD, FSIR, CCRP**  
**Edward Kim, MD, FSIR**

**11:30 am**  
**Adjourn**

---

### Y-90: The Complete Course  Program Coordinators & Steering Committee

**Coordinators:**

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

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

- Siddharth A. Padia, MD  
  UCLA Medical Center  
  Los Angeles, CA

**Steering Committee:**

- Matthew S. Johnson, MD, FSIR  
  Indiana Univ. School of Medicine  
  Indianapolis, Ind.

- Robert J. Lewandowski, MD, FSIR  
  Northwestern Memorial Hospital  
  Chicago, Ill.

- Riad Salem, MD, MBA, FSIR  
  Northwestern Memorial Hospital  
  Chicago, Ill.

- Daniel Sze, MD, PhD, FSIR  
  Stanford Univ. Medical Center  
  Stanford, Calif.
Invited Faculty

Nadine Abi-Jaoudeh, MD, FSIR, CCRP
University of California
Orange, Calif.

Aaron Fischman, MD, FSIR
Mount Sinai Health System
New York, NY

Ripal Gandhi, MD, FSVM
Miami Cardiac & Vascular Institute
Miami, Fla.

Paul Haste, MD
Indiana Univ. School of Medicine
Indianapolis, Ind.

Ryan Hickey, MD
NYU Langone Medical Center
New York, N.Y.

Guy Johnson, MD
University of Washington
Seattle, Wash.

S. Cheenu Kappadath
University of Texas
MD Anderson Cancer Center
Houston, Tex.

Edward Kim, MD, FSIR
Mount Sinai Medical Center
New York, NY

Greg Nadolski, MD
University of Pennsylvania
Perelman School of Medicine

Ricardo Paz-Fumagalli, MD
Mayo Clinic Jacksonville
Jacksonville, Fla.

William “Bill” S. Rilling, MD, FSIR
Medical College of Wisconsin
Milwaukee, Wisc

Accreditation and CME Statement

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 16.75 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 a maximum of 11.75 self-assessment credits (SAM) 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.