A SMALL-GROUP INTENSIVE WORKSHOP ON
EVOLVING STRATEGIES IN
HEPATITIS C MANAGEMENT

Friday, September 29, 2017
9:00 AM – 2:00 PM
Lentz Public Health Center
Centennial A and B
2500 Charlotte Ave
Nashville, Tennessee
The link to the evaluation form for this activity is activated in your IAS–USA account under “My Activities” (www.iasusa.org/registrations).

Frequently Asked Questions

Common Abbreviations and Terms

Agenda and Presentation Summaries

- Click here for the agenda.
- Click here for presentation summaries.

Note: Prior to the completion of the workshop, only didactic presentations are distributed. Case presentation slides are only available after the completion of the activity, to keep the discussions spontaneous.

- Welcome and Participation Introductions
  Arthur Y. Kim, MD

- Tennessee Department of Health Overview of HIV and HCV in Tennessee
  Carolyn Wester, MD

- Opening Remarks
  Cody A. Chastain, MD

Didactic Overviews

- A Revolution of Therapeutic Options to Combat HCV Infection
  Arthur Y. Kim, MD

- The Liver for the Nonhepatologist
  Michael R. Charlton, MBBS, FRCP

Interactive Case-Based Presentations

- CASES: Initial Treatment of the Hepatitis C Virus-Infected Patient
  Arthur Y. Kim, MD

- Working Lunch:
  CASES: Treatment of HCV in HIV/HCV Coinfection and the Management of Drug-Drug Interactions
  Jennifer J. Kiser, PharmD

- CASES: Management of HCV in Prior Treatment Failure
  Arthur Y. Kim, MD

- CASES: Treatment of Hepatitis C Virus Infection in Patients With Cirrhosis
  Michael R. Charlton, MBBS, FRCP
Mission

The mission of the IAS–USA is to improve the prevention, treatment, care, and quality of life for people with or at risk of HIV, hepatitis C virus (HCV), or other viral infections through high-quality, relevant, balanced, and needs-oriented education and information for practitioners and scientists who are actively involved in medical care and research.

Board of Directors

Nonstaff board members serve in a volunteer capacity and are not compensated for their roles in oversight and governance of the organization. As part of its duties, the Board oversees the needs assessment, design, development, and evaluation of all educational programs. Visit www.iasusa.org/board-directors for a list of Board of Directors members.

A Small-Group Intensive Workshop on Evolution Strategies in Hepatitis C Management

- Half-Day Intensive Workshops. These intensive half-day workshops are designed to improve the clinical care of people infected with HCV. These small-group, interactive workshops are limited to no more than 50 clinical decision makers (physicians, nurse practitioners, PharmDs, and physician assistants).

Management of Hepatitis C Virus in the New Era: Small Molecules Bring Big Changes

- Full-Day Advanced Courses. These full-day advanced continuing medical education (CME) courses focus on the treatment of HCV infection. Rapid advances in HCV infection management, with available treatments capable of curing HCV, require the ongoing attention of practitioners involved in HCV medicine. Visit www.iasusa.org/attend for upcoming courses.

Improving the Management of HIV Disease®: An Advanced CME Live Course in HIV Pathogenesis, Antiretrovirals, and Other Selected Issues in HIV Disease Management

- These courses are designed for HIV specialists who are actively involved in HIV disease management or research. Nationally and internationally recognized faculty provide advanced-level presentations with balanced, timely, scientifically rigorous, and clinically relevant information about HIV disease management. These courses are held in several US cities each year. Visit www.iasusa.org/attend for upcoming courses.

Webinars

The IAS–USA offers state-of-the-art CME webinars led by nationally and internationally recognized faculty. Each webinar lasts 60 to 90 minutes and addresses a current topic in HIV or HCV infection prevention and management and the treatment of concomitant conditions.

Conference on Retroviruses and Opportunistic Infections

The IAS–USA partners with the Conference on Retroviruses and Opportunistic Infections (CROI) Foundation to sponsor CROI, the most important HIV research conference worldwide. Webcasts, electronic posters, and abstracts from CROI 2014, CROI 2015, CROI 2016, and CROI 2017 are available at www.CROIconference.org.

CROI 2018 will be held in Boston, Massachusetts, from March 4 to March 7, 2018.

CROI 2019 will be held in Seattle, Washington, from March 4 to March 7, 2019.

Topics in Antiviral Medicine™

The IAS–USA publishes the peer-reviewed journal Topics in Antiviral Medicine™ 4 to 6 times a year as a resource for physicians and other health care practitioners who are actively involved in the care of patients with HIV or other viral infections. The journal offers CME credit and is indexed on Index Medicus/MEDLINE. To be added to our e-mail list, please create an account on the IAS–USA website at www.iasusa.org. See the FAQ page for additional information on how to create an account. Subscriptions are complimentary and available in electronic format.

Treatment and Testing Guidelines

The IAS–USA sponsors the development of clinical practice guidelines. The guidelines are written by independent volunteer panels of researchers and clinicians from around the world and focus on management issues for which definitive evidence is lacking. Guidelines for viral load testing, antiretroviral therapy, behavioral and biomedical HIV prevention, HIV drug resistance testing, cytomegalovirus infection, and metabolic complications have been published.
The IAS–USA (Continued)


Drug Resistance Mutations Projects
Through the HIV Drug Resistance Mutations Panel, the IAS–USA provides regular updates on the mutations associated with resistance to antiretroviral drugs. Drug resistance mutations figures and accompanying user notes are published in Topics in Antiviral Medicine™. Visit http://www.iasusa.org/content/drug-resistance-mutations-in-HIV for details.

Cases on the Web
Cases on the Web (COW) is a series of case-driven internet-based CME activities sponsored by the IAS–USA to offer physicians convenient online access to enduring material and a top-quality education. The COW program provides basic- and advanced-level educational activities that are offered for CME credit for as long as each COW is active, after which time they remain available in the COW archive for reference use only. Visit www.iasusa.org/cow for a current list of COW activities.

Webcasts and Podcasts
Some past IAS–USA live CME courses are available as webcasts and podcasts and may be downloaded from the IAS–USA website. Visit www.iasusa.org/resources for details and a list of available presentations. Please note that these webcasts and podcasts do not offer CME credit.

Key Slides
The IAS–USA offers a collection of downloadable key slides from presentations at conferences or past IAS–USA live courses. Presenters have selected the slides they consider the most informative and relevant. Key slides may be downloaded as PowerPoint files from the IAS–USA website at www.iasusa.org/resources/slides.

For information about any of these programs, please contact the IAS–USA.
Phone: (415) 544-9400 • Fax: (415) 544-9401
E-mail: registration"at"iasusa.org • Website: www.iasusa.org

www.iasusa.org
## Workshop Faculty, Local Hosts, and Local Contributor Financial Relationships With Commercial Entities

In the interest of maintaining the independence of its CME activities, and in accordance with the policies of the Accreditation Council for Continuing Medical Education (ACCME), the IAS–USA requires all persons with control of content (eg, course faculty, IAS–USA Board members, Viral Hepatitis Board members, and program staff) to disclose any financial relationships that they or their spouses or partners have had with commercial companies within the previous 12 months. Any real or apparent conflicts of interest of those parties are resolved prior to the CME activity being delivered. Individuals who refuse to disclose financial interests may not participate in an IAS–USA CME activity. Below are the financial interests that faculty members of this course have had within the past 12 months as of the date listed. View the [Faculty Financial Disclosure Policy](#).

### Workshop Leaders

<table>
<thead>
<tr>
<th>Michael R. Charlton, MBBS, FRCP</th>
<th>Jennifer J. Kiser, PharmD</th>
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<tbody>
<tr>
<td>Professor of Medicine</td>
<td>Associate Professor</td>
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<tr>
<td>University of Chicago</td>
<td>University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences</td>
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<tr>
<td>Chicago, Illinois</td>
<td>Aurora, Colorado</td>
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*Dr Charlton has received research grants from or served as a consultant to AbbVie, Gilead Sciences, Inc, Janssen Therapeutics, Merck, and Novartis International AG.*

(Updated 09/25/17)

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<tr>
<th>Arthur Y. Kim, MD</th>
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<tr>
<td>Associate Professor of Medicine</td>
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<tr>
<td>Harvard Medical School</td>
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<td>Boston, Massachusetts</td>
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*Dr Kim has no relevant financial affiliations to disclose.*

(Updated 09/25/17)

### Local Hosts

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<tr>
<th>Cody A. Chastain, MD</th>
<th>Carolyn Wester, MD, MPH</th>
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<tr>
<td>Assistant Professor</td>
<td>Medical Director</td>
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<tr>
<td>Viral Hepatitis</td>
<td>HIV, STD, and Viral Hepatitis</td>
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<td>Program</td>
<td>Tennessee Department of Health</td>
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<td>Division of Infectious Diseases</td>
<td>Nashville, Tennessee</td>
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<td>Department of Medicine</td>
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<td>Vanderbilt University Medical Center</td>
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<td>Nashville, Tennessee</td>
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*Dr Chastain has received research support awarded to Vanderbilt University Medical Center from Gilead Sciences, Inc.*

(Updated 09/25/17)

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<th>Kimberly Gill, RN, MPH</th>
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<tr>
<td>Viral Hepatitis Director of Clinical Services</td>
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<td>Tennessee Department of Health</td>
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<td>Nashville, Tennessee</td>
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*Ms Gill has no relevant financial affiliations to disclose.*

(Updated 09/25/17)
## IAS–USA Staff, Board of Directors, and Viral Hepatitis Advisory Board Financial Relationships With Commercial Entities

### IAS–USA CME Staff
Donna M. Jacobsen, Executive Director, has no relevant financial affiliations to disclose. (Updated 09/25/17)

Cristin M. Toth, Director, CME Programs, has no relevant financial affiliations to disclose. (Updated 09/25/17)

### IAS–USA Board of Directors
The nonstaff members of the IAS–USA Board of Directors are not compensated for their roles in governing and overseeing the IAS–USA.

Please see [www.iasusa.org/board-directors](http://www.iasusa.org/board-directors) for information about board members and a link to up-to-date financial disclosure information.

### IAS–USA Viral Hepatitis Advisory Board
The members of the IAS–USA Viral Hepatitis Advisory Board are not compensated for their roles in governing and overseeing the IAS–USA viral hepatitis educational efforts.

Please see [www.iasusa.org/viral-hepatitis-advisory-board](http://www.iasusa.org/viral-hepatitis-advisory-board) for information about the financial disclosures for the IAS–USA Viral Hepatitis Advisory Board.
Workshop Overview

Expert faculty will speak in a small-group interactive setting on new strategies for managing HCV infection.

On completion of the workshop, learners will be able to describe:

- Screening and testing for hepatitis C virus (HCV) infection and staging of the liver for the nonhepatologist
- Strategies for state-of-the-art treatment for HCV infection in:
  - Treatment-naive and -experienced patients
  - The setting of HCV in HIV/HCV coinfection
  - Special patient populations, such as those who have advanced liver disease
- Posttreatment screening for hepatocellular carcinoma

Educational Format

In this workshop, information is presented through lectures and clinically relevant case studies developed by a distinguished faculty of expert clinicians and researchers.

- **Lectures** provide state-of-the-art updates on timely and clinically relevant issues.
- **Case presentations** outline clinical scenarios, and attendees discuss their diagnostic or treatment choices. Faculty members use clinical decision points in case presentations as springboards for discussion of new data and current diagnostic and therapeutic issues in HCV management.
- **Audience discussion** is meant to be a large part of this workshop. Participants are encouraged to bring their own cases and clinical challenges to the discussion.

We encourage you to provide your comments and suggestions on the online workshop evaluation form that you will receive following the workshop. We are especially interested in knowing how this workshop will contribute to measurable changes in your practice. In the months following this activity, we will ask you to complete a brief online survey, which will help facilitate this goal.

Please note that photographing, videotaping, or audio recording presentations is not permitted.

Assessment of Needs

HCV disease management has seen rapid advances, and medical practitioners can now use direct-acting antiviral agents to treat and even cure many people. Consequently, the field needs clinical decision makers, including HIV disease management and infectious disease specialists, who are well versed in the complexities of antiretroviral management or who are involved or interested in HCV medicine to join their hepatology and gastroenterology colleagues in providing care for HCV-infected patients.

Intended Audience

The small-group, interactive format is designed for clinical decision makers, such as physicians, nurse practitioners, and physician assistants, as well as pharmacists who plan to begin treating patients with HCV infection who have experience in treating HCV infection and would like to update their knowledge of HCV infection management.

Physician Payment Sunshine Act (“Sunshine Act” or “Open Payment”)

In 2014, the Physician Payment Sunshine Act (“Sunshine Act” or “Open Payments”), a provision of the Affordable Care Act, was developed. According to CMS: “Open Payments is a national disclosure program that promotes transparency by publishing the financial relationships between the medical industry and healthcare providers (physicians and hospitals) on a publicly accessible website developed by CMS.” Until recently, CME activities that receive commercial support have been exempt from reporting payments for goods such as hosted meals.
Accreditation Statement and CME Credits

Physicians (MD, DO, and international equivalents) are eligible to receive CME credit for participation in the activity.

The International Antiviral Society–USA (IAS–USA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The IAS–USA designates this live activity for a maximum of 4.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

In 2006, the IAS–USA received Accreditation with Commendation, joining an elite group of organizations in the United States that have been awarded this prestigious status “reserved for programs which are truly exceptional,” according to the ACCME.

ABIM MOC Points For Internal Medicine Specialists and Subspecialists

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 4.50 MOC points in the American Board of Internal Medicine (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

Nursing Continuing Education Contact Hours

Educational Review Systems is an approved approver of continuing nursing education by the Alabama State Nursing Association, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation. Provider # 5-115. This program is approved for 4.5 hours of continuing nursing education.

Educational Review Systems is also approved for nursing continuing education by the state of California, the state of Florida and the District of Columbia.

Pharmacy Continuing Education Contact Hours

Educational Review Systems is accredited by the Accreditation Council for Pharmacy Education (ACPE) as a provider of continuing pharmacy education. This program is approved for 4.5 hours (0.45 CEUs) of continuing pharmacy education credit. Proof of participation will be posted to your NABP CPE profile within 4 to 6 weeks to participants who have successfully completed the post-test. Participants must participate in the entire presentation and complete the course evaluation to receive continuing pharmacy education credit.

UAN # 0761-9999-16-260-L01-P

Other health care professionals will receive a certificate of participation.

Claiming CME Credits or a Certificate of Participation

CME Credits

CME-accredited providers are required to document the number of CME credits that each registered physician intends to claim for a CME activity.

1. Complete the online evaluation.
2. When you get to the end of the evaluation and arrive at the “Thank You” page, click the blue hyperlink “CME posttest” (do not click “Submit Form” yet). Complete the test.
3. After completing the posttest, click the blue hyperlink “online CME claim form” to be directed to the online claim form. Sign in to your IAS–USA account and click “Log in.” If you do not already have an IAS–USA account, please follow the instructions below to create an account.
4. FINAL STEP: Once logged in, click on “Request your certificate” and enter the total hours you attended; click “Submit.”

Important you must click “Submit” for the credits to register to your account. Submit the claim form no later than 30 days after the date of the activity.
To determine the number of CME credits or CE hours that you can claim, calculate your time spent attending presentations and question-and-answer sessions. For example, if you attended 4 presentations at 30 minutes each, 3 question-and-answer sessions at 10 minutes each, for a total of 2.5 hours, you would claim 2.50 CME credits. You may claim a maximum of 4.50 AMA PRA Category 1 Credits™ for this activity.

5. Click “Print your Certificate.” This certificate is also available for you to print from your IAS–USA account under My Certificates.

ABIM MOC Points

1. Complete the online evaluation.
2. When you get to the end of the evaluation and arrive at the “Thank You” page, click the blue hyperlink “ABIM MOC posttest” (do not click “Submit Form” yet). Complete the test.
3. Follow steps 3 through 5 for claiming CME credits.
   - ABIM MOC points will only be awarded after the successful completion of the evaluation component demonstrating knowledge gained at all meetings through a series of multiple choice questions.
   - ABIM MOC points are intended for internal medicine physicians in the United States who are maintaining their ABIM Board Certification.
   - Upon receiving a passing score, and after the posttest closes, the results will be submitted to ABIM (this process can take approximately 72 hours).
   - Once your points have been added to your ABIM account, you will receive an e-mail notification from ABIM.
   - If you need to review any of the presentations to prepare for the posttest, you may visit www.iasusa.org/webcasts.
   - You must have an ABIM ID number to earn ABIM MOC points.

Pharmacy Credits

1. Follow steps 1 through 3 for claiming CME credits. Once logged in, click on “Request your certificate” and click “Submit” to claim your Certificate of Participation.
2. Click “Print your Certificate.” This certificate is also available for you to print from your IAS–USA account under My Certificates.

The information of those claiming pharmacy credits will be sent to Educational Review Systems following the course. Your credits will post to your account within 60 days of the completion of the activity.

Please note: to receive pharmacy credits, you must provide your NABP CPE# and your date of birth. Please update your account on the IAS–USA website.

Nursing Credits

1. Follow steps 1 through 3 for claiming CME credits, then click “Submit” to claim your Certificate of Participation.
2. Click “Print your Certificate.” This certificate is also available for you to print from your IAS–USA account under My Certificates.

The information of those claiming nursing credits will be sent to Educational Review Systems following the course. Your credits will post to your account within 60 days of the completion of the activity.

Certificate of Participation

1. Follow steps 1 through 3 for claiming CME credits, then click “Submit” to claim your Certificate of Participation.
2. Click “Print your Certificate.” This certificate is also available for you to print from your IAS–USA account under My Certificates.

To Create an IAS–USA Account

1. Click on Create new account
2. Complete the required information
3. Click on the “Create new account” button at the bottom of the page
3. You will receive an e-mail with a link to validate your account. If you do not receive the validation e-mail, please e-mail registration@iasusa.org or call the IAS–USA office at 415-544-9400.
Grant Support and Financial Affiliations

IAS–USA funding comes from a variety of sources. The largest single source of revenue is conference and CME participant registration fees. Other funding sources include grants and subcontracts from government agencies, grants from the pharmaceutical and diagnostics (commercial) industries, private donations, and gifts-in-kind from local community businesses and individuals.

The Tennessee Department of Health has donated gift-in-kind for meeting space and meals for this activity.

This workshop is part of the IAS–USA national educational effort that is funded in part by charitable contributions from commercial companies. Per IAS–USA policy, any effort that uses commercial grants must receive grants from several companies with competing products. Funds are pooled and distributed to activities at the sole discretion of the IAS–USA.

Grantors have no input into any activity, including its content, development, or selection of topics or speakers. Food and beverages at IAS–USA events are purchased with registration fees, not with grant support money. Generous support for this activity has been received from the following contributors:

GOLD SUPPORTERS
Gilead Sciences, Inc
Merck

BRONZE SUPPORTER
AbbVie

In accordance with IAS–USA policy on disclosure and conflicts of interest, information regarding conflicts of interest is obtained from all parties with control over activity content (ie, directors, officers, activity chairs, faculty, authors, and IAS–USA staff), and conflicts of interest of those parties are resolved.
Audience Response System

Poll Everywhere

Poll Everywhere is a simple application that works well for live audiences using mobile devices. People participate by visiting a fast, mobile-friendly web page or sending text messages. Questions are multiple choice, and the answers are tabulated immediately and displayed in a bar graph for the speaker and the audience to analyze.

Before and during the IAS–USA program, Poll Everywhere is used to gauge audience demographics, and participants are asked to answer a short series of demographic questions. These questions help determine the knowledge level and professional background of the audience and whether the audience response system is working properly. Please continue to use Poll Everywhere on your mobile device throughout the course. Your participation is appreciated.

Participants should choose answers based on their own experiences and preferences in treatment. Although some questions have definite right and wrong answers, many answers reflect current treatment trends, firsthand clinical or research experiences, and individual opinions. It is likely that the speaker will comment on the audience responses and, if appropriate, compare them with the approach chosen in the case under discussion. Questions with varying responses often lead to fruitful discussion in the question-and-answer periods.

To vote using Poll Everywhere:

1. When the course begins, use your own device to text “IASUSA334” to the number 22333 to join the polling session. You may also join by going to the website PollEv.com/iasusa334 on any browser.

2. To answer a multiple-choice question via texting, press the number of your choice, 1 through 9 (browser users, click on a selection). You have approximately 20 seconds to enter an answer. A countdown timer will be displayed on the screen at the front of the room.

3. To cancel an answer and choose a new one, text “CLEAR” or “UNDO” (browser users, click on “Clear response”). This action deletes the first response. Answers may be changed only during the time allowed for each question.

Answers are anonymous and are not tracked to individuals in any way.

If you have trouble connecting to the polling session, please alert an IAS–USA staff member.
Annotating Your Syllabus for iOS, Android, and Kindle

For iOS:
1. Download Adobe Reader for your device (iPad, iPhone, etc) from the App Store.
2. Download each presentation summary that you are interested in annotating.
3. In your Internet browser, tap the “open in” button and select Adobe Reader.
4. To display the toolbar, tap toward the center of the screen.
5. Select the speech bubble with a pen to begin annotating.

For Android:
1. Download Adobe Reader from the Google Play Store.
2. Download each presentation summary that you are interested in annotating.
3. The presentation summary will be saved to your “downloads” folder if it does not open automatically.
4. Open the document in Adobe Reader.
5. Select the speech bubble with a pen to begin annotating.

For Kindle Tablet:
1. Download Adobe Reader from the Kindle Store.
2. Download each presentation summary that you are interested in annotating.
3. In your Kindle downloads folder, under the option “open with,” select Adobe Reader.
4. Select the speech bubble with a pen to begin annotating.

For Kindle E-Reader:
1. PDF files cannot be annotated, but you can still study the presentations by e-mailing the document to your device.

Go to “My Account” on your device and scroll to the bottom of the page to find the e-mail address for your Kindle e-reader.