

46TH ANNUAL

THE COLUMBIA RENAL BIOPSY COURSE

LIVESTREAMING AVAILABLE

JULY 12 - JULY 14, 2023

This activity is approved for AMA PRA Category 1 Credit™



ENDORSED BY



ISN's endorsement is for the promotion of education in general, therefore the specific content of the event/course is the responsibility of the organizer

ERA-EDTA's endorsement is for the promotion of education in general, therefore the specific content of the event/course is the responsibility of the organizer

COURSE DIRECTORS

Andrew S. Bomback, MD, MPH

Glen S. Markowitz, MD

Jai Radhakrishnan, MD, MS

PROGRAM DESCRIPTION AND OBJECTIVES

The course is designed to assist nephrologists and nephropathologists in diagnosing and managing the most common forms of medical renal disease, including diseases that target the glomerulus, tubules, interstitium, and blood vessels.

The activity will span three days and include lectures covering the following content areas: Nephrotic syndrome, Nephritic syndrome, Genetics, Tubulointerstitial, Vascular Disease, Transplant & Dysproteinemia. These lectures will be delivered live in front of an audience but also streamed simultaneously for virtual participants; all participants will have access to these lectures for 3 months after the conference. Pre-recorded pathology laboratory didactic sessions will also be made available for all participants.

Upon completion of this activity, participants will be better able to understand:

- the pathophysiology and clinical aspects of the major parenchymal diseases of the kidney, with emphasis on clinical-pathologic correlations and the role of renal biopsy.
- pathology, pathophysiology, pathogenesis, clinical presentation, prognosis, and optimal therapy for many different medical renal diseases, including but not limited to minimal change disease, FSGS, membranous nephropathy, amyloidosis, C3 glomerulopathy, IgA nephropathy, hereditary nephritis, acute post-infectious glomerulonephritis, amyloidosis, light chain deposition disease, myeloma cast nephropathy, cryoglobulinemic glomerulonephritis, lupus nephritis, and diabetic nephropathy.

GUEST FACULTY

Charles E. Alpers, MD
Professor of Laboratory Medicine and Pathology, Nelson Fausto-Ann De Lancey Endowed Professor, University of Washington Medical Center, Seattle, Washington

Laurence H. Beck, Jr., MD, PhD
Associate Professor, Medicine, Boston University School of Medicine, Boston, Massachusetts

Robert B. Colvin, MD
Benjamin Castleman Distinguished Professor of Pathology, Harvard Medical School; Former Pathologist-in-Chief, Massachusetts General Hospital, Boston, Massachusetts

Ronald J. Falk, MD
Nan and Hugh Cullman Eminent Professor; Chair of Medicine; University of North Carolina School of Medicine, Chapel Hill, North Carolina

Agnes B. Fogo, MD
John L. Shapiro Professor of Pathology; Professor of Medicine and Pediatrics; Director, Division of Renal Pathology/Electron Microscopy, Vanderbilt University Medical Center, Nashville, Tennessee

Leal C. Herlitz, MD
Director of Renal Pathology and Electron Microscopy, Cleveland Clinic, Cleveland, Ohio

Michelle A. Hladunewich, MD, FRCP(C), MSc
Professor of Medicine, University of Toronto; Chief of Medicine, Sunnybrook Health Sciences Centre, Toronto, Canada

J. Charles Jennette, MD
Professor of Pathology and Laboratory Medicine; Professor of Medicine; Executive Director of Nephropathology School of Medicine, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina

Samih H. Nasr, MD
Professor, Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota

Brad Rovin, MD
Head, Division of Nephrology, Ohio State University at The Ohio State University Medical Center, Columbus, Ohio

Sanjeev Sethi, MD, PhD
Professor, Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota

Meghan E. Sise, MD, MS
Assistant Professor of Medicine, Massachusetts General Hospital, Boston, Massachusetts

COLUMBIA UNIVERSITY IRVING MEDICAL CENTER FACULTY & NEWYORK-PRESBYTERIAN HOSPITAL STAFF

Gerald B. Appel, MD
Professor of Medicine; Director, Glomerular Kidney Center

Ibrahim Batal, MD
Associate Professor of Pathology and Cell Biology

Andrew S. Bomback, MD, MPH
Associate Professor of Medicine

Pietro Canetta, MD
Associate Professor of Medicine

Vivette D. D'Agati, MD
Delafield Professor of Pathology and Cell Biology; Director, Renal Pathology

Satoru Kudose, MD
Assistant Professor of Pathology and Cell Biology

Glen S. Markowitz, MD
Professor of Pathology and Cell Biology; Vice Chair for Anatomic Pathology

Hila Milo Rasouly, PhD
Associate Research Scientist in Medicine

Jai Radhakrishnan, MD, MS
Professor of Medicine; Clinical Chief, Division of Nephrology

Maya Rao, MD
Associate Professor of Medicine and Director of the Chronic Kidney Disease Program

Dominick Santoriello, MD
Associate Professor of Pathology and Cell Biology

Miroslav Sekulic, MD
Assistant Professor of Pathology and Cell Biology

M. Barry Stokes, MD
Professor of Pathology and Cell Biology

WEDNESDAY, JULY 12, 2023

- 7:30 AM **Registration; Continental Breakfast**
- 8:10 AM **Welcome and Introduction**
Glen S. Markowitz, MD
- 8:20 AM **Histophysiology of the Glomerulus**
Vivette D. D'Agati, MD
- 9:00 AM **Minimal Change Disease (MCD) and Focal Segmental Glomerulosclerosis (FSGS)**
Agnes B. Fogo, MD
- 9:40 AM **Current Therapy of MCD and FSGS**
Gerald B. Appel, MD
- 10:20 AM **Refreshment Break**
- 10:50 AM **Membranous Nephropathy (MN): Pathology**
Glen S. Markowitz, MD
- 11:20 AM **Membranous Nephropathy: New Antigens & New Insights**
Sanjeev Sethi, MD, PhD
- 11:50 AM **Treatment and Immune Surveillance in MN**
Laurence H. Beck, Jr., MD, PhD
- 12:30 PM **Working Lunch: Renal Biopsy: Clinical Cases**
- 1:40 PM **Membranoproliferative GN and C3 Glomerulopathy: Pathology**
Miroslav Sekulic, MD
- 2:20 PM **C3 Glomerulopathy: Diagnosis and Management**
Andrew S. Bomback, MD, MPH
- 3:00 PM **Refreshment Break**
- 3:30 PM **Pathology of Diabetic Kidney Disease**
Charles E. Alpers, MD
- 4:10 PM **Treatment and Prevention of Diabetic Kidney Disease**
Maya Rao, MD
- 4:50 PM **State of the Art Lecture: Glomerular Disease in Pregnancy**
Michelle A. Hladunewich, MD, FRCP(C), MSc
- 5:30 PM **Adjourn**

THURSDAY, JULY 13, 2023

- 7:30 AM **Registration; Continental Breakfast**
- 8:00 AM **Crescentic Glomerulonephritis and ANCA & Anti-GBM Disease**
J. Charles Jennette, MD
- 8:40 AM **Treatment of Crescentic Glomerulonephritis**
Ronald J. Falk, MD
- 9:20 AM **Refreshment Break**
- 9:50 AM **Pathology of IgA Nephropathy and IgA Vasculitis**
J. Charles Jennette, MD
- 10:30 AM **Treatment of IgA Nephropathy and IgA Vasculitis**
Pietro Canetta, MD
- 11:10 AM **Pathology of Lupus Nephritis**
Vivette D. D'Agati, MD
- 11:50 AM **Working Lunch: Renal Biopsy: Clinical Cases**

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- 1:20 PM **39TH ANNUAL CONRAD L. PIRANI LECTURE**
Introduction
Andrew S. Bomback, MD, MPH
- 1:30 PM **39TH ANNUAL CONRAD L. PIRANI LECTURE**
New Treatments and New Approaches to Lupus Nephritis
Brad Rovin, MD
- 2:15 PM **Refreshment Break**
- 2:40 PM **Pathology of Viral Glomerular Disease: HCV, HIV, and SARS-CoV-2**
M. Barry Stokes, MD,
- 3:20 PM **Clinical and Therapeutic Aspects of Viral-mediated Glomerular Disease**
Meghan E. Sise, MD, MS
- 4:00 PM **Infection Related Glomerulonephritis**
Leal C. Herlitz, MD
- 4:40 PM **Adjourn**

FRIDAY, JULY 14, 2023

- 7:30 AM **Registration; Continental Breakfast**
- 8:00 AM **Hereditary Nephropathies**
Agnes B. Fogo, MD
- 8:40 AM **Nephronophthisis and Autosomal Dominant Tubulointerstitial Kidney Disease**
Dominick Santoriello, MD
- 9:10 AM **Integrating the Renal Biopsy with Genetic Testing**
Dominick Santoriello, MD & Hila Milo Rasouly, PhD
- 10:00 AM **Refreshment Break**
- 10:30 AM **Pathology of Thrombotic Microangiopathy**
M. Barry Stokes, MD
- 11:00 AM **Treatment of Thrombotic Microangiopathy**
Jai Radhakrishnan, MD, MS
- 11:30 AM **Acute Tubular Injury and the Spectrum of Nephrotoxicity**
Glen S. Markowitz, MD
- 12:10 PM **Working Lunch: Renal Biopsy: Clinical Cases**
- 1:30 PM **Acute Interstitial Nephritis**
Satoru Kudose, MD
- 2:00 PM **Renal Transplant Pathology Part 1: Rejection**
Robert B. Colvin, MD
- 2:40 PM **Renal Transplant Pathology Part 2:
Drug Toxicity, Infections, and Recurrent & De Novo Glomerular Disease**
Ibrahim Batal, MD
- 3:20 PM **Refreshment Break**
- 3:50 PM **Dysproteinemic Renal Disease**
Glen S. Markowitz, MD
- 4:30 PM **Amyloidosis, Fibrillary Glomerulonephritis, and Immunotactoid Glomerulopathy**
Samih H. Nasr, MD
- 5:10 PM **Adjourn**
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EDUCATIONAL CONTENT PROVIDED ON-LINE ONLY

PRE-RECORDED CONTENT

45 minutes Renal Pathology Laboratory Session for topics covered on Wednesday, July 12

45 minutes Renal Pathology Laboratory Session for topics covered on Thursday, July 13

45 minutes Renal Pathology Laboratory Session for topics covered on Friday, July 14

ACCREDITATION STATEMENT

The Columbia University Vagelos College of Physicians and Surgeons is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT

The Columbia University Vagelos College of Physicians and Surgeons designates this live activity for a maximum of 26.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ADDITIONAL INFORMATION

Center for Continuing Medical Education
Columbia University Vagelos College of Physicians and Surgeons
630 West 168th Street, Unit 39
New York, NY 10032
Telephone: (212) 305-3334
Fax: (212) 305-5740
email: cme@columbia.edu
www.ps.columbia.edu/cme

MEETING LOCATION

Columbia University Irving Medical Center, Alumni Auditorium
William Black Medical Research Building
650 West 168th Street
New York, NY 10032

Parking is available at the Columbia University Irving Medical Center parking lot, located on the southwest corner of Fort Washington Avenue and West 165th Street.

Directions to the Columbia University Irving Medical Center:

By Public Transportation

Subway:

Take the 1, A, or C trains to the 168th Street station. From midtown Manhattan, the A train provides express service. NOTE: The 1 train is not stopping at 168th Street throughout 2019.

Bus:

Many city buses serve the medical center, including the M-2, 3, 4, 5, and 100. For additional bus and subway information, call the Transit Authority at 718-330-1234.

By Car

The fastest and most convenient way to reach the medical center by car is to follow directions to the George Washington Bridge and then exit onto Riverside Drive. From there, proceed south and turn left onto West 165th Street (the first left) and then right onto Fort Washington Avenue to the medical center parking facility.

From upstate New York and New Jersey:

After crossing the George Washington Bridge, follow signs to the Henry Hudson Parkway (also called the West Side Highway), and then to Riverside Drive.

From Riverdale and Westchester via the Saw Mill River Parkway:

Exit the Henry Hudson Parkway at Riverside Drive, which is immediately past the George Washington Bridge.

From Westchester, Connecticut, or the East Side of Manhattan via the Major Deegan, Cross-Bronx Expressway, or Harlem River Drive approaching the George Washington Bridge:

Take the Henry Hudson Parkway, stay to the left, and follow signs to Riverside Drive.

From the West Side of Manhattan:

Take the Henry Hudson Parkway to exit 15 for Riverside Drive South

HOTEL ACCOMMODATIONS

For preferred hotel rates, please visit our travel portal: <https://www.worldtravelinc.com/columbia.visitors.portal>.

REGISTRATION

Online: <https://cvent.me/NN41Ny>

IN-PERSON FEES

Physicians: \$795; Fellows & Residents in training: \$450 (with letter from program director certifying status).

All in-person attendees will be required to follow the VISITOR POLICY and must have proof of vaccination as well as comply with other Columbia University safety protocols. Once registered, instructions will be sent regarding uploading vaccination documentation.

LIVE STREAMING FEES

Physicians: \$595; Low-to-Middle-Income Country (LMIC)* Physicians: \$Free; Fellows & Residents in training: \$300 (with letter from program director certifying status).

* Countries which are defined as low-income economies (\$1,005 or less GNI per capita) or as lower-middle-income economies (\$1,006 to \$3,955 GNI per capita), as defined by The World Bank Group. A list of eligible countries can be found at: <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519>

For those that select livestream/virtual attendance, a viewing link will be sent 24-48 hours prior to the meeting.

The fee includes both the pre-recorded videos and the live sessions. All registrants will be sent an electronic course syllabus and access to the lectures for three months upon conclusion of the event. Confirmation of registration will be sent upon receipt of the registration form.

AMERICANS WITH DISABILITIES ACT

The Columbia University Vagelos College of Physicians and Surgeons fully complies with the legal requirements of the ADA and the rules and regulations thereof. Any participant with special needs must submit a written request to our office at least one month prior to the course date.