

16<sup>th</sup> Annual

# Therapeutic Apheresis Academy

September 19-21, 2024

Fairfax Marriott at Fair Oaks, Fairfax, Virginia



## Course Overview

The **16th Annual Therapeutic Apheresis Academy** is a comprehensive 2½-day multidisciplinary course that aims to enhance interprofessional learning through modern teaching methods. The general session will cover current practices, recent updates, and strategies for establishing new therapeutic apheresis services. Demonstration workshops will offer hands-on clinical applications and insights from seasoned practitioners. Our lineup features nationally and internationally recognized experts in apheresis, along with experienced frontline clinical practitioners.

## Target Audience

This conference is designed for physicians, nurses, and other allied health professionals in the fields of nephrology, hematology, pathology/blood banking, and neurology, who specialize in therapeutic apheresis and provide care for both adult and pediatric patients.

Provided by the **University of Virginia School of Medicine and School of Nursing.**



Scan for more info or visit  
[bit.ly/TAA-Conference](https://bit.ly/TAA-Conference)



# Agenda

## Thursday, September 19

7:00-8:00 a.m.

**Registration, Check In, and Breakfast (provided)**

8:00-8:10 a.m.

**Welcome**

Rasheed A. Balogun, MD

### **I: THERAPEUTIC APHERESIS MEDICINE 101**

Moderator: Rasheed A. Balogun, MD

8:10-8:30 a.m.

**Fundamentals of Therapeutic Apheresis Medicine**

Andre A. Kaplan, MD, FACP, FASN

8:30-8:50 a.m.

**Basics of Transfusion Medicine for Apheresis Providers**

Valery Kogler, MD

8:50-9:10 a.m.

**Apheresis Instrumentation:**

**Principles and Use in Practice**

Amber Sanchez, MD

9:10-9:30 a.m.

**Man:Machine Connection, Vascular Access in Apheresis – Options and Selection**

Korshie Dumor, MD, MPH

9:30-10:00 a.m.

**Interactive Panel Discussion, Question and Answer Session**

10:00-10:30 a.m.

**Break with Exhibitors**

### **II: CLINICAL APPLICATIONS – PART 1**

Moderator: Valery Kogler, MD

10:30-10:50 a.m.

**Therapeutic Apheresis for CNS Disorders: Proven Successes**

Brian G. Weinshenker, MD, FRCP(C), FAAN

10:50-11:10 a.m.

**Therapeutic Apheresis for PNS Disorders: The Evidence**  
TBD

11:10-11:30 a.m.

**Apheresis Medicine in Hematopoietic Stem Cell Transplantation**

Herleen Rai, MD

11:30 a.m.-12:00 p.m.

**Interactive Panel Discussion, Question and Answer Session**

12:00-1:00 p.m.

**Lunch (provided)**

### **III: CLINICAL APPLICATIONS – PART 2**

Moderator: Laura Connelly-Smith, BPharm, MBBCh, DM

1:00-1:20 p.m.

**Evidence-Based Recommendations for Therapeutic Apheresis Medicine: The “ASFA Guidelines”**

Laura Connelly-Smith, BPharm, MBBCh, DM

1:20-1:40 p.m.

**Kidney Disorders Responsive to Therapeutic Apheresis**

Andre A. Kaplan, MD, FACP, FASN

1:40-2:00 p.m.

**Past and Emerging Trends for Plasma Exchange in Kidney Transplantation**

Jeanne Kamal, MD

2:00-2:30 p.m.

**Interactive Panel Discussion, Question and Answer Session**

2:30-3:00 p.m.

**Break with Exhibitors**

### **IV: CLINICAL APPLICATIONS – PART 3**

Moderator: Rasheed A. Balogun, MD

3:00-3:20 p.m.

**Lipid Apheresis Successes in Clinical Use**

Wolfgang Ramlow, MD

3:20-3:40 p.m.

**Clinical Indications and Techniques of Extracorporeal Photopheresis.**

Amber Sanchez, MD

3:40-4:00 p.m.

**Toxicology and Envenomation: Apheresis to the Rescue**

Joshua King, MD

4:00-4:30 p.m.

**Interactive Panel Discussion, Question and Answer Session**

4:30-4:40 p.m.

**Closing Comments**

4:40 p.m.

**Adjourn**

# Agenda

## Friday, September 20

8:00-8:30 a.m.

**Breakfast (provided) with Exhibitors**

8:30-8:35 a.m.

**Welcome**

Rasheed A. Balogun, MD

### **V: ADVANCES – CURRENT AND ON THE HORIZON?**

Moderator: Rasheed A. Balogun, MD

8:35-8:55 a.m.

**Red Cell Exchange in Sickle Cell Disease and Other Hematological Disorders**

Kamille A. West-Mitchell, MD

8:55-9:15 a.m.

**Literature Review: Recent Publications of Clinical Impact in Apheresis Medicine**

Jan Hofmann, MD, MPH, MSc

9:15-9:35 a.m.

**Designer Medicines for Cancer; Immunotherapy with Chimeric Antigen Receptor Cells**

Nicole A. Aqui, MD

9:35-10:05 a.m.

**Interactive Panel Discussion, Question and Answer Session**

10:05-10:30 a.m.

**Break with Exhibitors**

### **VI: ANATOMY OF A THERAPEUTIC APHERESIS SERVICE**

Moderator: Jenna Khan, MD

10:30-10:50 a.m.

**Different Approaches to Apheresis Services: In-House versus Mobile Units**

Jan Hofmann, MD, MPH, MSc

10:50-11:10 a.m.

**A Guide to Clinical Documentation, Professional Billing and Reimbursement for Therapeutic Apheresis**

Rasheed A. Balogun, MD

11:10-11:30 a.m.

**Doctors' Orders! Sample Apheresis Prescriptions**

Amber Sanchez, MD

11:30 a.m.-12:00 p.m.

**Interactive Panel Discussion, Question and Answer Session**

12:00-1:00 p.m.

**Lunch (provided)**

### **VII: FURTHER APHERESIS**

Moderator: Jeanne Kamal, MD

1:00-1:20 p.m.

**Special Considerations in Pediatric Therapeutic Apheresis**

Jennifer Webb, MD, MSCE

1:20-1:40 p.m.

**Currently Available Gene Therapy Products**

Kamille A. West-Mitchell, MD

1:40-2:00 p.m.

**Thrombotic Thrombocytopenic Purpura: Plasma Exchange and anti-vWF Nanobody**

Nicole A. Aqui, MD

2:00-2:30 p.m.

**Interactive Panel Discussion, Question and Answer Session**

2:30-3:00 p.m.

**Break with Exhibitors**

### **VIII: CLOSING SESSION**

Moderator: Rasheed A. Balogun, MD

3:00-3:20 p.m.

**Starting from Scratch: Set Up and Managing Bedside Nursing in an Apheresis Unit**

Judy C. Kauffman, DNP, MSN, RN, CNN

3:20-3:40 p.m.

**Therapeutic Apheresis in the Intensive Care Unit**

Amber Sanchez, MD

3:40-4:00 p.m.

**Can We Learn from Man's Best Friend? Veterinary Indications for Clinical Apheresis**

Larry D. Cowgill, DVM, PhD, DACVIM (SAIM)

4:00-4:20 p.m.

**Apheresis on the Global Scene: Tidbits from Around the World**

Rasheed A. Balogun, MD

4:20-4:40 p.m.

**Interactive Panel Discussion, Question and Answer Session**

4:40-4:50 p.m.

**Closing Comments**

4:50 p.m.

**Adjourn**

# Agenda

## Saturday, September 21

(Pre-Registration Required for Optional Workshop)

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8:30-8:45 a.m.

### **Check In and Breakfast (provided)**

8:45-9:00 a.m.

### **Welcome and Introduction to the Workshop**

The workshop participants will spend 35 minutes at each of the five stations described below.

9:00-9:35 a.m.

### **Station 1: Centrifugation based Therapeutic Apheresis (Instrument 1)**

Rosemarie Grace Dizon, BSN, RN, CDN

9:35-10:10 a.m.

### **Station 2: Centrifugation based Therapeutic Apheresis (Instrument 2)**

TBA

10:10-10:45 a.m.

### **Station 3: Centrifugation + Irradiation (Extracorporeal Photopheresis)**

Amber Sanchez, MD

10:45-11:20 a.m.

### **Station 4: Column (filtration) based Therapeutic Apheresis**

Rasheed A. Balogun, MD

11:20-11:55 a.m.

### **Station 5: Vascular Access**

Jeanne Kamal, MD

11:55 a.m.-12:00 p.m.

### **Closing Comments**

12:00 p.m.

### **Adjourn**

Agenda and speakers are subject to change.



# Speakers

## Course Director

### **Rasheed A. Balogun, MD, FACP, FASN, FMCP, HP (ASCP)**

Professor of Medicine & Pathology  
Harrison Distinguished Teaching Professor of Nephrology  
Medical Director, Apheresis Unit & Extracorporeal Therapies  
University of Virginia

## Planning Committee

### **Laura Connelly-Smith, BPharm, MBBCh, DM**

Medical Director, Apheresis and Cellular Therapy, Fred Hutch Cancer Center  
Associate Professor of Hematology, University of Washington  
Associate Professor, Fred Hutch Cancer Center  
University of Washington

### **Jeanne Kamal, MD**

Assistant Professor of Medicine  
Division of Nephrology-Transplant  
University of Virginia

### **Judy C. Kauffman, DNP, MSN, RN, CNN**

Director  
Cellular Therapy Program, BMT Apheresis, and Cancer Center Quality Program  
UVA Health Cancer Center  
University of Virginia

### **Jenna Khan, MD**

Assistant Professor of Pathology and Laboratory Medicine  
Medical Director, Blood Bank and Transfusion Medicine Service  
University of Virginia

### **Valery Kogler, MD**

Professor of Pathology and Laboratory Medicine  
Associate Medical Director, Cell Therapy Lab and Transfusion Medicine Service  
University of Virginia

## UVA Faculty

### **Rosemarie Grace Dizon, BSN, RN, CDN**

Clinician III  
University of Virginia

### **Korshie Dumor, MD, MPH**

Assistant Professor of Medicine  
Division of Nephrology  
University of Virginia

### **Brian G. Weinshenker, MD, FRCP(C), FAAN**

Professor of Neurology  
University of Virginia



## Visiting Speakers

### **Nicole A. Aqui, MD**

Vice Chair for Inclusion, Diversity, and Equity  
Director, Pathology Residency Program  
Chief, Transfusion and Apheresis Services  
Department of Pathology and Laboratory Medicine  
University of Pennsylvania

### **Larry D. Cowgill, DVM, PhD, DACVIM (SAIM)**

Professor, Department of Medicine and Epidemiology  
School of Veterinary Medicine  
University of California-Davis  
Davis, CA

### **Jan Hofmann, MD, MPH, MSc**

Clinical Professor  
Department of Pathology and Laboratory Medicine  
University of California, San Francisco  
San Francisco, CA

### **Andre A. Kaplan, MD, FACP, FASN**

Professor Emeritus  
University of Connecticut School of Medicine

### **Joshua King, MD**

Assistant Professor of Medicine & Pharmacy  
Medical Director, University of Maryland  
Maryland Poison Control Center

### **Herleen Rai, MD**

Assistant Professor  
Department of Pathology, Division of  
Transfusion Medicine  
The Johns Hopkins University School of Medicine

### **Dr. Wolfgang Ramlow**

Apheresis Care Rostock (ACR)  
Therapeutic Apheresis  
Rostock, Germany

### **Amber Sanchez, MD**

Clinical Professor of Medicine  
University of California San Diego

### **Jennifer Webb, MD, MSCE**

Associate Professor of Pediatrics  
George Washington University School of Medicine and  
Health Sciences  
Attending Physician  
Division of Pediatric Hematology  
Children's National Hospital  
Director of the Therapeutic Apheresis Program  
Washington, D.C.

### **Kamille A. West-Mitchell, MD**

Chief, Blood Services Section  
Department of Transfusion Medicine  
National Institutes of Health Clinical Center



## Accreditation and Designation Statement

In support of improving patient care, the University of Virginia School of Medicine and School of Nursing is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

This activity was planned by and for the healthcare team, and learners will receive **15.5** Interprofessional Continuing Education (IPCE) credits for learning and change.

The University of Virginia School of Medicine and School of Nursing designates this live activity for a maximum of **15.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The University of Virginia School of Medicine and School of Nursing awards **15.5 contact hours** for nurses who participate in this educational activity and complete the post activity evaluation.

The University of Virginia School of Medicine and School of Nursing awards **15.5 hours** of participation (consistent with the designated number of *AMA PRA Category 1 Credit(s)™* or ANCC contact hours) to a participant who successfully completes this educational activity.

The University of Virginia School of Medicine and School of Nursing maintains a record of participation for six (6) years.

Successful completion of this CME activity, which includes participation in the evaluation component, enables the learner to earn credit toward the CME [and Self-Assessment Examination requirements] of the boards listed below. It is the CME activity provider's responsibility to submit learner completion information to ACCME for the purpose of granting MOC II credit.

- American Board of Internal Medicine (ABIM)
- American Board of Pathology (ABPath)
- American Board of Pediatrics (ABP)

For learners wishing to receive credit through a Member Board not included above, please refer directly to your Member Board's MOC Part II Lifelong Learning and Self-Assessment Program Requirements.



## Conference Objectives

**At the end of this educational activity, learners will be able to:**

- Recognize indications for Apheresis Treatment.
- Apply evidence-based medicine to make decisions in the realm of Apheresis Medicine.
- Identify practices that will decrease complications during Apheresis Treatment.
- Describe advances and changing patterns in Apheresis treatment modalities.
- Explain how Apheresis may be applied within diverse medical fields.
- Compare the different approaches to therapeutic apheresis along with the benefits and risk for each approach.
- List the different modalities of Therapeutic Apheresis Treatments.
- State the differences between centrifugal technologies and filtration technologies in TA.
- Recognize and use the categories (I-IV) that form indications for TA as written in the American Society for Apheresis International guidelines.
- List the indications for Extracorporeal Photopheresis.
- Apply clinical and administrative knowledge and best practices necessary to set up and maintain a Therapeutic Apheresis Service.
- Describe the attributes of varying types of Apheresis equipment.
- Compare the duties of each member of the Therapeutic Apheresis team in hospital-based versus traveling units.
- Summarize the role of apheresis treatment for patients with acute liver failure.
- Describe the similarities and differences in apheresis treatment in pediatric patients.
- Identify successful strategies for transitioning pediatric patients to adult models of care.

**At the end of the workshop experience, participants will be able to:**

- Distinguish and differentiate procedures performed by several classes of therapeutic apheresis instrument modalities: (a) centrifugation, (b) column (filtration) and (c) centrifugation + irradiation.
- Elucidate patient information required for procedures performed on each class of instrument.
- Describe the vascular access options and requirements as these relate to patient, procedure and instrument.
- Describe the blood pathway from access through processing and returning to the patient for the various procedures and instruments.
- Identify instrument parameters which can be adjusted by the operator during a procedure.

## Conference Location

### Fairfax Marriott at Fair Oaks

11787 Route 50  
Fairfax, Virginia, USA, 22033  
Toll free: +1-888-236-2427

### Hotel Accommodations

To receive the group rate at the Fairfax Marriott at Fair Oaks, book by **August 21, 2024**. The group rate will be available until this date unless the block sells out early.

Make hotel reservations at [cmevillage.com](http://cmevillage.com) or call 1-888-236-2427 and reference The 2024 Therapeutic Apheresis Academy (TAA) Event.

### Room Rate

\$159 Standard King or Doubles

\$199 Junior Suite

Guest Room Occupancy Tax: 7%

Sales Tax: 6%

Complimentary Onsite Parking



## Registration

Register and make payment on our Learning Portal at [cmevillage.com](http://cmevillage.com).

	Until July 31	Aug. 1-Sept. 15	After Sept. 15
Physicians	\$500	\$600	\$700
Other HCP / Residents / Fellows	\$375	\$475	\$575
Demonstration Lab Workshop	\$100	\$100	\$200

Please Note: Policies on cancellation, payment methods and accommodation requests can be found on our website under FAQs. Additional questions, please contact [uvacme@virginia.edu](mailto:uvacme@virginia.edu) or 434-924-5310.

## Contact Information

Program Manager: Monica McCommon, CMP | 434.924.8394 | [mmcccommon@virginia.edu](mailto:mmcccommon@virginia.edu)

