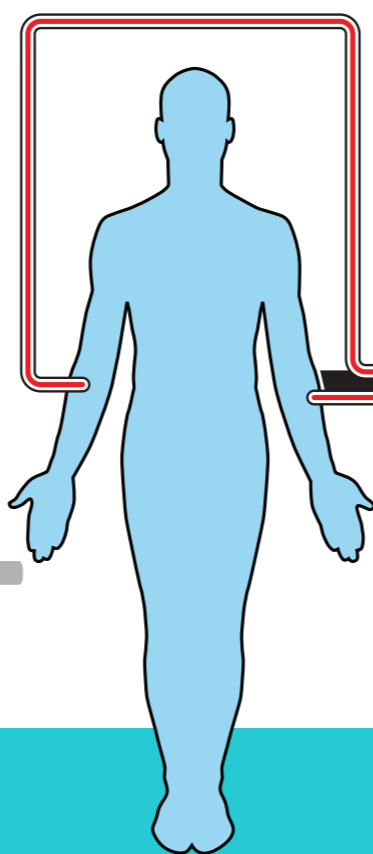


13TH
ANNUAL



Therapeutic



APHERESIS

Academy



VIRTUAL

September 16-18, 2021

Pre-registration required. Available for 30 days.

COURSE DIRECTOR

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

University of Virginia Health System

Department of Medicine, Division of Nephrology

The distinguished faculty is comprised of renowned experts selected to provide an interactive, multidisciplinary, and interprofessional educational program. Educational program developed in cooperation with the American Society for Apheresis.

PROVIDED BY THE

University of Virginia

School of Medicine and School of Nursing



UVA Health



COURSE OVERVIEW AND TARGET AUDIENCE

The Therapeutic Apheresis Academy is a multidisciplinary 2½ day course for physicians in nephrology, hematology, pathology/blood banking, and other allied health professionals with an interest in therapeutic apheresis. This conference will build upon previously established interprofessional learning using modern learning techniques. The main sessions will present an overview of current practice and information on building a new therapeutic apheresis service. The demonstration workshops will showcase clinical applications and provide an opportunity to glean practical tips from expert practitioners

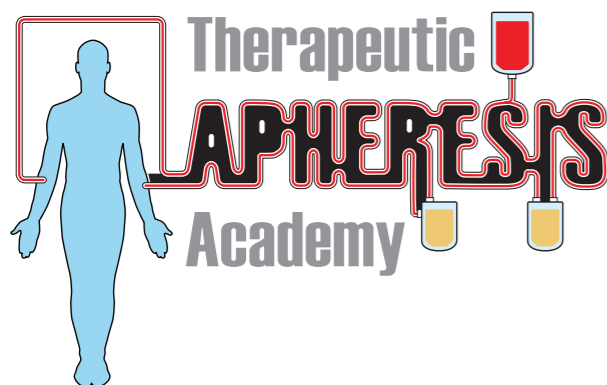
DESIRED OUTCOMES

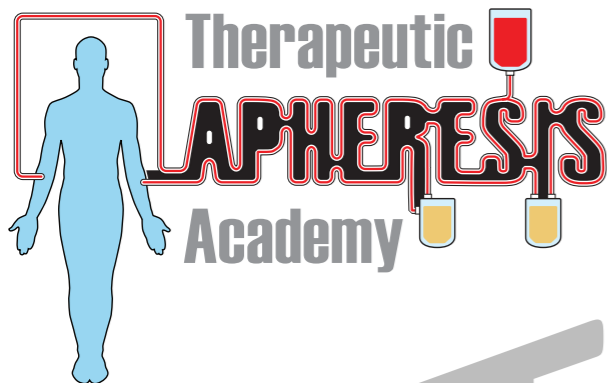
At the end of this educational activity, learners will be able to:

- 1 List the different modalities of Therapeutic Apheresis Treatments
- 2 State the differences between centrifugal technologies and filtration technologies in TA
- 3 Recognize and use the categories (I-IV) that form indications for TA as written in the American Society for Apheresis international guidelines
- 4 List the indications for Extracorporeal Photopheresis
- 5 List the indications for Lipoprotein Apheresis
- 6 Apply clinical and administrative knowledge necessary to set up and run a Therapeutic Apheresis Service
- 7 Describe the attributes of varying types of apheresis equipment
- 8 Understand and compare duties of each member of the Therapeutic Apheresis team in hospital based versus travelling Apheresis Units

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

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





AGENDA

THURSDAY, SEPTEMBER 16, 2021

9:00 AM

WELCOME

9:05

I: THERAPEUTIC APHERESIS MEDICINE 101

9:05-9:25

Therapeutic Apheresis Medicine from 35,000 feet; A General Overview

9:25-9:45

Transfusion Medicine Essentials in Apheresis Medicine

9:45-10:05

Vascular Access Options in Apheresis Medicine

10:05-10:35

Interactive Panel Discussion, Q and A

10:35-11:00

Break: Meet the Exhibitors, Networking

11:00

II: CLINICAL APPLICATIONS – PART 1

11:00-11:20

Therapeutic Apheresis for Renal Disorders

11:20-11:40

Plasma Exchange in Solid Organ Transplantation

11:40-12:00

Apheresis Medicine in Hematopoietic Stem Cell Transplantation

12:00-12:30

Interactive Panel Discussion, Q and A

12:30-1:00

Break: Meet the Exhibitors, Networking

1:00

III: CLINICAL APPLICATIONS – PART 2

1:05-1:25

Red Cell Exchange in Sickle Cell Disease and other Hematological Disorders

1:25-1:45

An Update on Therapeutic Apheresis for Neurological Disorders

1:45-2:05

Thrombotic Thrombocytopenic Purpura: Plasma Exchange and anti-vWF Nanobody

2:05-2:35

Interactive Panel Discussion, Q and A

2:35-3:00

Break: Meet the Exhibitors, Networking

3:00

IV: CLINICAL APPLICATIONS – PART 3

3:00-3:20

Therapeutic Apheresis in Vascular and Cardiac Disorders; Lessons from Europe

3:20-3:40

Extracorporeal Photopheresis; Technique and Indications.

3:40-4:00

Apheresis, Toxicology and Envenomations

4:00-4:30

Interactive Panel Discussion, Q and A

4:30-4:40

Closing Comments

4:40

ADJOURN

Rasheed A Balogun, MD

Rasheed A Balogun, MD *Chair*

David Ward, MD

Nancy Dunbar, MD

Kambiz Kalantari MD

Session I Faculty

Sana Khan, MD *Chair*

Andre Kaplan, MD

Gayle Vranic, MD

Leonid Volodin, MD

Session II Faculty

Nancy Dunbar, MD *Chair*

Amber Sanchez, MD

Sana Khan, MD

Jill Adamski, MD

Session III Faculty

Rasheed A Balogun, MD *Chair*

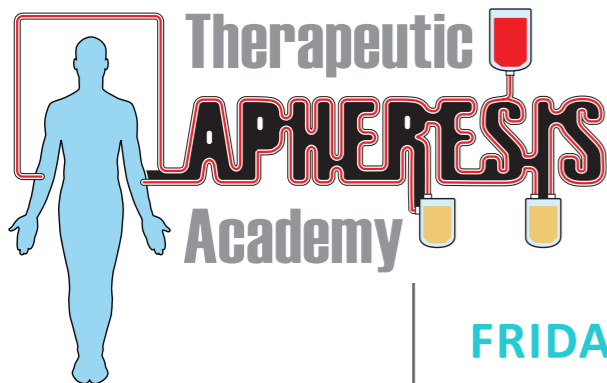
Bernd Stegmyr, MD

Amber Sanchez, MD

Joshua King MD

Session IV Faculty

Rasheed A Balogun, MD



AGENDA—CONT.

FRIDAY, SEPTEMBER 17, 2021

9:00 AM

WELCOME

9:05

V: ADVANCES — CURRENT AND IN THE HORIZON?

9:05-9:25

2019 Evidence based Recommendations for Therapeutic Apheresis Medicine; the “ASFA Guidelines”

9:25-9:45

The 2020 Update to the 2019 ASFA guidelines on the use of therapeutic apheresis in ANCA-associated vasculitis

9:45-10:05

Precision Medicine Meets Apheresis Medicine; Novel Immunotherapy for Cancer with Chimeric Antigen Receptor Cells

10:05- 10:35

Interactive Panel Discussion, Q and A

10:35-11:00

Break: Meet the Exhibitors, Networking

11:00

VI: ANATOMY OF A THERAPEUTIC APHERESIS SERVICE

11:00-11:20

Different Models of Apheresis Services. In-House vs. Travelling Units; A Dialogue

11:20-11:40

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

11:40-12:00

Telemedicine and Therapeutic Apheresis in the COVID-19 Era

12:00-12:30

Interactive Panel Discussion, Q and A

12:30-1:00

Break: Meet the Exhibitors, Networking

1:00

VII: FURTHER APHERESIS

1:05-1:25

Pediatric Therapeutic Apheresis Medicine. What to do and What not to do. Examples of Challenges and Solutions.

1:25-1:45

Plasma Exchange in Alzheimer’s Disease; Where are we?

2:45-2:05

CRP Apheresis; What is it, what does it do?

2:05-2:35

Interactive Panel Discussion, Q and A

2:35-3:00

Break: Meet the Exhibitors, Networking

3:00

VIII: CLOSING SESSION

3:00-3:20

Bedside Nursing in Apheresis Medicine; A Dialogue

3:20-3:40

Therapeutic Apheresis in the Intensive Care Unit

3:40-4:00

Beyond USA; Apheresis Medicine Global View

4:00-4:30

Interactive Panel Discussion, Q and A

4:30-4:40

Closing Comments

4:40

ADJOURN

Rasheed A Balogun, MD

Rasheed A Balogun, MD *Chair*

Nancy Dunbar, MD

Rasheed A Balogun, MD

Nicole Aqui, MD

Session V Faculty

Tamila Kindwall-Keller DO *Chair*

Jan Hoffman, MD and Tamila Kindwall-Keller DO

Rasheed A Balogun, MD

Jan Hoffman, MD

Session VI Faculty

Rasheed A Balogun, MD *Chair*

Volker Witt MD

Zbigniew M. Szczepiorkowski, MD, PhD, FCAP

Wolfgang Ries, MD

Session VII Faculty

Rasheed A Balogun, MD *Chair*

Rosemarie Dizon, RN and Anthony Mallory, RN

Amber Sanchez, MD

Wolfgang Ramlow, MD

Session VIII Faculty

Rasheed A Balogun, MD

SATURDAY, SEPTEMBER 18, 2021

8:45	Welcome and Introduction to the Workshop
9:00-10:40	The workshop participants will spend 25 minutes at each of the four stations . By the end of this workshop the participant should be able to: <ol style="list-style-type: none"> ➊ Distinguish and differentiate procedures performed by several classes of therapeutic apheresis instrument modalities: (1) centrifugation, (2) column (filtration) and (3) centrifugation + irradiation. ➋ Elucidate patient information required for procedures performed on each class of instrument. ➌ Describe the vascular access options and requirements as these relate to patient, procedure and instrument. ➍ Describe the blood pathway from access through processing and return to the patient for the various procedures and instruments. ➎ Identify instrument parameters which can be adjusted by the operator during a procedure.
10:40-11:00	Break
11:00-11:50	Interactive Panel Discussion, Q and A
11:50	Closing Comments
12:00	ADJOURN

Rasheed Balogun, MD

Workshop Faculty
Rasheed Balogun, MD

STATION DESCRIPTIONS

- ➊ Centrifugation based Therapeutic Apheresis
Anthony Mallory, RN
- ➋ Centrifugation + Irradiation (Extracorporeal Photopheresis)
Yanyun Wu, MD
- ➌ Column (filtration) based Therapeutic Apheresis
Rasheed Balogun, MD
- ➍ Vascular Access
Joshua King MD

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.



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

IPCE CREDIT

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



IPCE CREDIT™

AMA PRA CATEGORY 1 CREDITS™

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.

ANCC CONTACT HOURS

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

HOURS OF PARTICIPATION

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.

MOC POINTS

Successful completion of this activity, planned in accordance with the needed MOC requirements, enables the participant to earn **MOC Part II Self-assessment** points equivalent to the amount of *AMA PRA Category 1™* claimed for the activity, through the American Board of Medical Specialties (ABMS) and Accreditation Council for Continuing Medical Education (ACCME®) joint initiative to create a wide array of Maintenance of Certification (MOC) Activities. The awarded transcript provides for both *AMA PRA Category 1™* and MOC II Self-assessment credit for the following participating boards:

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

NOTE: It is the accredited provider's responsibility to submit learner completion information to the ACCME for the purpose of granting MOC II Self-assessment credit for the above boards. 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.

REGISTRATION

Registration and payment are available at www.cmevillage.com, (visit our Learning Portal or Upcoming Events). **Registration will close midnight on September 12, 2021.** The course syllabus will be available online only for 30 days after the conference.

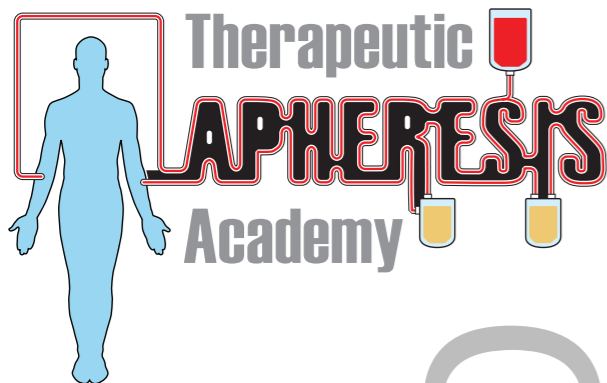
The additional Demonstration Workshop registration fee provides admittance to the Saturday Demonstration Workshop. The workshop is open to a limited number of participants, and a waitlist will be in effect after the lab is full.

NOTE: Policies on cancellation, payment methods and accommodation requests can be found on our website under FAQs. Additional questions, please contact uvacme@virginia.edu or 434-924-5310.

	Until Aug. 9	Aug. 10-Sept. 12
Physician	\$425.00	\$550.00
Other HCP, Resident/Fellow	\$325.00	\$450.00
Demonstration Lab Workshop	\$75.00	\$75.00

Contact Info

Office of Continuing Medical Education
uvacme@virginia.edu
434-924-5310



WHO'S WHO

INVITED SPEAKERS

Jill Adamski MD, PhD

Associate Professor
Medical Director, Nyberg Human Cellular
Therapy Laboratory
Chair, Division of Laboratory Medicine
Department of Laboratory Medicine
and Pathology
Mayo Clinic Hospital

Nicole A. Aqui, MD

Associate Professor of Clinical Pathology
and Laboratory Medicine
Director, Pathology Residency Training Program
Chief of Transfusion and Apheresis Services
Hospital of the University of Pennsylvania

Nancy M. Dunbar, MD

Associate Professor
Geisel School of Medicine
Department of Pathology and Laboratory
Medicine
Department of Medicine
Medical Director, Blood Bank
Associate Medical Director, Transfusion
Medicine Service

Jan Hofmann, MD

Internist
Sutter Health, San Francisco, CA

Andre A. Kaplan, MD, FACP, FASN

Professor Emeritus of Medicine
University of Connecticut Health Center
Chief, Blood Purification
John Dempsey Hospital
Medical Director,
UConn Dialysis Center

Joshua D. King, MD

Associate Professor, Medicine and Pharmacy
University of Maryland
Medical Director, Maryland Poison Center

Wolfgang Ries, MD

Vice-director of the clinic of internal medicine
and
Head of the department of nephrology
DIAKO Hospital in Flensburg

Amber P. Sanchez, MD

Assistant Professor of Clinical Medicine
Department of Medicine
University of California San Diego; Medical
Director, Therapeutic Apheresis Program.
UCSD Medical Center

Zbigniew M. Szczepiorkowski, MD, PhD, FCAP

Professor of Pathology and Laboratory Medicine
Professor of Medicine
Dartmouth-Hitchcock Medical Center

Gayle Vranic, MD, MS

Associate Professor
Georgetown University
MedStar Georgetown Transplant Institute

David M. Ward, MD, FRCP (Glasg), HP(ASCP)

Professor Emeritus of Clinical Medicine,
University of California San Diego

Volker Witt, MD

Attending Physician
Pediatric ICU, Pediatric Hematology and
Oncology, Stem Cell Transplantation Unit, Head
of Apheresis Unit, Commissioner of Blood Depot
St. Anna Children's Hospital, Vienna, Austria

Yanyun Wu, MD, PhD

Professor and Vice Chair
Department of Pathology and Laboratory
Medicine
Medical Director of Transfusion, Apheresis, and
Cell processing
University of Miami

UVA HEALTH FACULTY

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

Professor of Medicine

Rosemarie S. Dizon, RN

Clinician III

Kambiz Kalantari, MD

Associate Professor of Medicine

Judy Kauffman, DNP*

Manager Cellular Therapies Program

Sana Khan, MD*

Assistant Professor of Medicine

Tamila L. Kindwall-Keller, DO*

Associate Professor of Medicine

Anthony C. Mallory, RN

Clinician II

Leonid Volodin, MBBS

Assistant Professor of Medicine

Andrea Zimmerman, EdD*

CE Program Manager

**organizing committee*