


# Updates in Primary Immunodeficiency 2026

September 18-19, 2026

InterContinental Hotel & Conference Center  
Cleveland, OH and Livestream



Your Choice of  
In-Person or  
Livestream



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# Updates in Primary Immunodeficiency 2026

## Overview

Join us for the Updates in Primary Immunodeficiency 2026 CME symposium. This course provides an educational forum for faculty to deliver in-depth reviews of common and rare inborn errors of immunity (IEI), a group of more than 600 complex, chronic disorders.

### After completing this educational activity, participants will be able to do the following:

- Provide an update on common variable immunodeficiency syndrome and research on IgE levels in immunodeficiency.
- Describe advances in specific antibody deficiency and utilize vaccine testing guidelines.
- Summarize recent advancements in identifying and treating hematologic complications including chronic neutropenia and immune thrombocytopenia.
- Discuss the increased cancer risks in immunocompromised patients and their implications for cancer screening.
- Review the clinical presentation, pathogenesis, diagnosis, and treatment of various immune disorders caused by cellular defects.
- Recognize, assess, and diagnose common symptoms seen in immunocompromised patients to help improve patient outcomes given earlier diagnosis.
- Define uses of artificial intelligence to improve and individualize therapy in patients with immune dysfunction.
- Critically appraise innovations in immunoglobulin replacement therapy, gene therapy, and stem cell transplantation in the treatment of immunodeficiency syndromes.
- Summarize the efficacy, side effects, and clinical implications of therapeutic options in management strategies for patients with complex immunodeficiency diseases.

## Who Should Attend?

This course is designed for health care professionals, including physicians, physician assistants, nurse practitioners, fellows, and residents, with an interest in allergy, immunology, rheumatology, hematology and beyond.



# Faculty

## Course Director

### James Fernandez, MD, PhD

Vice Chair of Research, Allergy & Immunology  
Department of Allergy & Clinical Immunology  
Medical Specialty Institute  
Cleveland Clinic

## Guest Faculty

### Roshini Abraham, PhD, D(ABMLI)

Nationwide Children's Hospital  
Columbus, OH

### Antoine Azar, MD

Johns Hopkins  
Baltimore, MD

### Jonathan Bernstein, MD

University of Cincinnati  
Cincinnati, OH

### Larisa Broglie, MD, MS

Medical College of Wisconsin  
Milwaukee, WI

### Charlotte Cunningham-Rundles, MD, PhD

Icahn School of Medicine at Mount Sinai  
New York, NY

### Jocelyn Farmer, MD, PhD

Beth Israel Lahey Health  
Burlington, MA

### Vivian Hernandez-Trujillo, MD

Nicklaus Children's Hospital  
Miami, FL

### Monica Lawrence, MD

University of Virginia  
Charlottesville, VA

### Nicholas Rider, DO

Virginia Tech University  
Roanoke, VA

### Troy Torgerson, MD, PhD

Allen Institute  
Seattle, WA

### Jolan Walter, MD, PhD

University of South Florida  
Tampa, FL

### Kelli Williams, MD, MPH

Medical University of South Carolina  
Charleston, SC

### Troy Woodard, MD

University of Buffalo  
Buffalo, NY

## Cleveland Clinic Faculty

### Cassandra Calabrese, DO

Department of Rheumatic & Immunologic Disease

### Anthony Fernandez, MD, PhD

Director of Medical Dermatology  
Department of Dermatology

### M. Elaine Husni, MD, MPH

Vice Chair of Rheumatology  
Department of Rheumatic & Immunologic Disease

### Carlos Isada, MD

Department of Infectious Disease Inpatient

### Alan Lichtin, MD

Department of Hematology Oncology

### Jarek Maciejewski, MD

Department of Translational Hematology &  
Oncology Research

### John McDonnell, MD, MS

Center for Pediatric Allergy and Immunology

## Planning Committee

### Christopher Heinrich, PA-C

Jeanette Kubicki, MSN

## Additional Reviewer

Matthew Lau, MD

This course is endorsed by:



# Agenda

Eastern time

## Friday, September 18, 2026

7:15 am Registration, Breakfast and Visit Exhibits

7:50 am Welcome & Introductions  
*James Fernandez, MD, PhD*

**Session 1 – Humoral Deficiency**  
*Moderator - James Fernandez, MD, PhD*

8:00 am CVID – the latest  
*Charlotte Cunningham-Rundles, MD, PhD*

8:30 am CVID like syndromes – APDS and beyond  
*Jocelyn Farmer, MD, PhD*

9:00 am Updates in Specific Antibody Deficiency and Diagnostic Vaccination Guidelines  
*Kelli Williams, MD, MPH*

9:30 am IgE levels - what does it tell us?  
*Monica Lawrence, MD*

10:00 am Panel Discussion  
*Course Faculty*

10:20 am Refreshment Break & Visit Exhibits

**Session 2 – Hematologic Complications**  
*Moderator - James Fernandez, MD, PhD*

10:40 am Chronic Neutropenia - how to handle  
*Jarek Maciejewski, MD, PhD*

11:10 am ITP in immune disease  
*Alan Lichtin, MD*

11:40 am Cancer in Immunodeficiency - screening recommendations  
*Troy Torgerson, MD, PhD*

12:10 pm Panel Discussion  
*Course Faculty*

12:30 pm Lunch, Visit Exhibits, and Optional Non-CME Satellite

**Session 3 – Cellular Defects**  
*Moderator - James Fernandez, MD, PhD*

1:30 pm Idiopathic CD4 Lymphocytopenia  
*Jonathan Bernstein, MD*

2:00 pm Job's Syndrome and CMCC - a dermatologist's view  
*Anthony Fernandez, MD, PhD*

2:30 pm Mendelian Susceptibility to Mycobacterial Disease  
*Vivian Hernandez-Trujillo, MD*

3:00 pm Chronic Granulomatous Disease in adults (including X-linked)  
*Antoine Azar, MD*

3:20 pm Panel Discussion  
*Course Faculty*

3:40 pm Refreshment Break and Visit Exhibits

**Session 4 - Complex Disease and Future Options**

*Moderator - James Fernandez, MD, PhD*

4:00 pm Thinking outside the box: diagnostic immunology evaluation of the complex immunology patient  
*Roshini Abraham, PhD, D(ABMLI)*

4:30 pm Using Artificial Intelligence to your advantage in practice  
*Nicholas Rider, DO*

5:00 pm Biologics use in the immunocompromised  
*Jolan Walter, MD, PhD*

5:30 pm Panel Discussion  
*Course Faculty*

5:45 pm Adjourn  
Reception & Optional Non-CME Satellite

## Saturday, September 19, 2026

7:15 am Registration, Breakfast, Visit Exhibits and Optional Non-CME Satellite

7:55 am Welcome & Introductions  
*James Fernandez, MD, PhD*

**Session 5 - Therapies for IEI & Cases with the Experts**  
*Moderator - James Fernandez, MD, PhD*

8:00 am The Headaches of Immunoglobulin Replacement- literally and figuratively  
*James Fernandez, MD, PhD*

8:30 am Antibiotic resistance and prophylaxis  
*Carlos Isada, MD*

9:00 am HSCT for adults with immunodeficiencies  
*Larisa Broglie, MD, MS*

9:30 am Difficult Cases with the Experts - case 1  
*Presenter - John McDonnell, MD*  
*Moderator - James Fernandez, MD, PhD*

10:00 am Difficult Cases with the Experts - case 2  
*Panel - Charlotte Cunningham-Rundles, MD, PhD, Troy Torgerson, MD, PhD, and Jolan Walter, MD, PhD*

10:20 am Refreshment Break & Visit Exhibits

**Session 6 - Common Symptoms in the Immunocompromised**  
*Moderator - James Fernandez, MD, PhD*

10:40 am Fatigue, diet and wellness in immune dysfunction  
*M. Elaine Husni, MD, MPH*

11:10 am Musculoskeletal pain in AB def patients - diagnostic and therapeutic difficulties  
*Cassandra Calabrese, DO*

11:40 am Chronic Sinusitis - when to be concerned  
*Troy Woodard, MD*

12:10 pm Panel Discussion  
*Course Faculty*

12:30 pm Closing Remarks  
*James Fernandez, MD, PhD*

12:35 pm Adjourn

# General Information

For additional information about this activity, contact the Cleveland Clinic Center for Continuing Education.  
Phone: 216.444.9990

## Location

InterContinental Hotel & Conference Center  
9801 Carnegie Avenue  
Cleveland, OH 44106

## Hotel Accommodations

Please contact the InterContinental Hotel at (855) 765-8709 for reservations before August 17, 2026. Rooms are available for \$219 per night, plus parking and applicable taxes. Please mention the Updates in Primary Immunodeficiency 2026 CME Course to receive the discounted rate.

## Parking

Parking is available in the East 100th Street Visitor's Parking Garage at prevailing rates. Valet parking is available at the InterContinental Hotel & Conference Center at prevailing rates.

## Livestream

This Symposium will be livestreamed on WebEx on Eastern Time. Access instructions will be sent by Friday, September 11.

## Accreditation

In support of improving patient care, this activity has been planned and implemented by Cleveland Clinic Center for Continuing Education. Cleveland Clinic Center for Continuing Education 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.

## Credit Designation

### Physicians / American Medical Association (AMA)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 12.50 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

### Physician Assistants / American Academy of PAs (AAPA)

Cleveland Clinic Center for Continuing Education has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 12.50 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

### Nurses / American Nurses Credentialing Center (ANCC)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 12.50 ANCC contact hours.

### American Board of Allergy & Immunology Continuing Certification

Through the American Board of Medical Specialties ("ABMS") ongoing commitment to increase access to practice relevant Continuing Certification Activities through the ABMS Continuing Certification Directory, **Updates in Primary Immunodeficiency 2026** has met the requirements as a **Lifelong Learning CME Activity** (apply toward general CME requirement) for the following ABMS Member Boards:

### ABMS Lifelong Learning CME Activity

Allergy and Immunology

### Certificate of Participation

A certificate of participation will be provided to other health care professionals for requesting credits in accordance with their professional boards and/or associations.

*Cleveland Clinic Center for Continuing Education reserves the right to cancel, postpone or modify an activity type at our sole discretion. In the event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any Activity cancellations or changes.*

## Faculty Disclosure

The Cleveland Clinic Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Integrity and Independence requiring mitigation of all faculty conflicts of interest. Faculty declaring a relevant financial relationship will be identified in the activity syllabus.

## Americans with Disabilities Act

The Cleveland Clinic Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Cleveland Clinic Center for Continuing Education at 216.444.9990 or 800.238.6750 at least two weeks prior to the activity.

## Health & Safety Information

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. As participants are responsible for their own health choices, the use of masks by all participants at this event is optional.

## Registration

### In-Person Course Registration Fee:

In-person registration fee includes: continental breakfast, refreshment breaks, Friday lunch, and online access to faculty presentations in PDF format. Participants will receive access to the presentation recordings, post-course, non-CME.

### Livestream Registration Fee:

Livestream registration fee includes: access to the live stream and online access to faculty presentations in PDF format. Participants will receive access to the presentation recordings, post-course, non-CME.

Category – In-Person Registration	Registration Fee
Physician	\$100
Allied Health Professionals	\$75
Residents/Fellows	\$0
Corporate	\$150

Category – Livestream Registration	Registration Fee
Physician	\$200
Allied Health Professionals	\$150
Residents/Fellows	\$0
Corporate	\$200

## Registration and Cancellation Information

Pre-registrations are encouraged for this event. For on-site registrations, contactless registration on your own device will be required. Please contact CME Registration at [CMERegistration@ccf.org](mailto:CMERegistration@ccf.org) or call 216.444.9990 with any questions.

In case of cancellation, email notification is required to process your refund.

A full refund will be issued for all registrations if canceled by August 31, 2026. After August 31, 2026, a \$50 cancellation fee will be deducted from your refund. No refunds will be issued after September 11, 2026 or after livestream access instructions are sent. Please email [cmeregistration@ccf.org](mailto:cmeregistration@ccf.org) to cancel your registration.



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**Cleveland Clinic**

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