Biologic Therapies VIII Summit: The Intersection of Rheumatology and Allied Specialties and 28th Annual Cleveland Review of Rheumatic Diseases

Featuring Vasculitis: Multidisciplinary Care for Multisystem Diseases Symposium

May 15 – 17, 2019
Global Center for Health Innovation | Cleveland, OH

Why Attend?

• Actively engage with experts on discussions regarding recent and future therapeutic targets

• Manage the team based roles from the diverse perspectives of multiple disciplines in caring for your patient with immune-mediated diseases

• Enhance your decision-making skills for appropriate use treatment selection of biologic therapies in management of complex multisystem disorders

• Critically appraise the scientific basis of wellness behavior and immune function

• Recognize the latest advances regarding biologic use for immune-mediated inflammatory diseases

This program has been endorsed by Association of Women in Rheumatology, Cleveland Society of Rheumatology, Georgia Society of Rheumatology, and Ohio Association of Rheumatology

Register Today! ccfcme.org/BioVIII
Biologic Therapies VIII Summit will be the first major conference focusing primarily on interdisciplinary rheumatology by exploring the interface of rheumatology with disciplines such as infectious disease, gastroenterology, neurology, oncology, dermatology, pulmonology, ophthalmology, and wellness. Each session will begin with the clinical challenges of diagnosis, followed by interactive case study discussions. These discussions will be facilitated by a panel of experts and will highlight challenges found with both available and experimental immune based therapies.

Join the Cleveland Clinic R.J. Fasenmyer Center for Clinical Immunology and the Cleveland Society of Rheumatology for these outstanding presentations on the clinical use of biologics to treat complex multiorgan autoimmune and autoinflammatory diseases.

Objectives

• Summarize the best practices for the diagnosis and interprofessional management of complex multiorgan rheumatic diseases
• Describe recent advances in targeted therapies for rheumatic diseases, including rheumatoid arthritis, psoriatic arthritis, spondyloarthropathy, vasculitis, and scleroderma, in terms of treatment efficacy and toxicity
• Enhance the effectiveness and minimize the toxicity of targeted therapies with focus on complex cases requiring interdisciplinary care
• Cite the most important evidence supporting biologic use for immune-mediated inflammatory diseases and apply that evidence to clinical practice
• Describe the advances in the science of wellness practices and the data on its value in clinical practice

Who Should Attend

The Summit is directed towards rheumatologists, dermatologists, gastroenterologists, infectious disease physicians, pulmonologists, neurologists, oncologists, ophthalmologists, internal medicine physicians, and allied health practitioners interested in complex multiorgan autoimmune and autoinflammatory diseases.

Planning Committee

Cassandra Calabrese, DO  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH

Leonard H. Calabrese, DO  
Professor of Medicine  
Cleveland Clinic Lerner College of Medicine of Case Western Reserve University  
R.J. Fasenmyer Chair of Clinical Immunology  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH

Soumya Chatterjee, MD  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH

Rula Hajj-Ali, MD  
Associate Professor of Medicine  
Cleveland Clinic Lerner College of Medicine  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH

M. Elaine Husni, MD, MPH  
Director, Arthritis and Musculoskeletal Treatment Center  
Vice Chair, Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH

Elizabeth Kirchner, MSN, CNP  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH
**Activity Co-Directors**

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<tr>
<th>Photo</th>
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| ![Leonard H. Calabrese, DO](image) | **Leonard H. Calabrese, DO**  
Professor of Medicine, Cleveland Clinic Lerner College of Medicine  
R.J. Fasenmyer Chair of Clinical Immunology  
Orthopaedic and Rheumatologic Institute  
Cleveland Clinic  
Cleveland, OH |  |
| ![M. Elaine Husni, MD, MPH](image) | **M. Elaine Husni, MD, MPH**  
Director  
Arthritis and Musculoskeletal Treatment Center  
Vice Chair, Department of Rheumatic and Immunologic Diseases  
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Cleveland Clinic  
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**Guest Faculty**

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| **John J. Cush, MD**            | Director of Clinical Rheumatology  
Baylor Research Institute  
Executive Editor, RheumNow.com  
Dallas, TX |  |
| **Fulvio D’Acquisto, PhD**      | Director of the Health Science Centre  
Professor of Immunology  
University of Roehampton  
London, United Kingdom |  |
| **Jeffrey M. Gelfand, MD**      | Associate Professor of Clinical Neurology  
University of California, San Francisco  
Weill Institute for Neurosciences/Department of Neurology  
San Francisco, CA |  |
| **Arthur Kavanaugh, MD**        | Professor of Medicine  
Director, Center for Innovative Therapy  
Division of Rheumatology, Allergy, and Immunology  
University of California, San Diego  
San Diego, CA |  |
| **Valter Longo, PhD**            | Edna Jones Professor in Gerontology  
Professor in Biologic Science  
Director of USC Longevity Institute  
University of Southern California  
Los Angeles, CA |  |
| **Chester V. Oddis, MD**         | Professor of Medicine  
Director, Myositis Center  
Division of Rheumatology and Clinical Immunology  
University of Pittsburgh School of Medicine  
Pittsburgh, PA |  |
| **James Rosenbaum, MD**          | Professor of Ophthalmology, Medicine, and Cell Biology  
Head, Division of Arthritis and Rheumatic Diseases  
Edward E. Rosenbaum Professor of Inflammation Research  
Oregon Health & Science University  
Richard Chenoweth Chair of Ophthalmology  
Legacy Devers Eye Institute  
Portland, OR |  |
| **Virginia Steen, MD**           | Professor of Medicine  
Interim Chief  
Division of Rheumatology, Allergy, and Immunology  
Georgetown University Medical Center  
Washington, DC |  |
| **John Stone, MD, MPH**          | Professor of Medicine  
Harvard Medical School  
The Edward Fox Chair in Medicine  
Director of Clinical Rheumatology  
Massachusetts General Hospital  
Boston, MA |  |
| **Cassandra Calabrese, DO**      | Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute |  |
| **Soumya Chatterjee, MD**        | Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute |  |
| **Daniel Culver, DO**            | Director of the Interstitial Lung Disease Program  
Department of Pulmonary Medicine  
Respiratory Institute |  |
| **Anthony Fernandez, MD, PhD**   | Director of Medical Dermatology  
W.D. Steck Chair of Clinical Dermatology  
Departments of Dermatology and Pathology  
Dermatology and Plastic Surgery Institute |  |
| **Rula Hajj-Ali, MD**            | Associate Professor of Medicine  
Cleveland Clinic Lerner College of Medicine  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute |  |
| **Kristin Highland, MD**         | Department of Pulmonary Medicine  
Respiratory Institute  
Department of Rheumatic and Immunologic Diseases  
Orthopedics and Rheumatology Institute |  |
| **Carlos Isada, MD**             | Vice Chair, Department of Infectious Diseases  
Respiratory Institute |  |
| **Miguel Regueiro, MD**          | Chair, Department of Gastroenterology, Hepatology, and Nutrition  
Digestive Disease and Surgery Institute |  |
| **Michael Roizen, MD**           | Chief Wellness Officer |  |
| **Sunil Srivastava, MD**         | Department of Ophthalmology  
Cole Eye Institute |  |
| **Vamsidhar Velcheti, MD**       | Associate Director, Center for Immunologic Oncology Research  
Department of Hematology and Oncology  
Taussig Cancer Institute |  |
Thursday, May 16, 2019

7:00 am  Registration, Continental Breakfast, and Exhibits

8:00 am  Welcoming Remarks
Leonard H. Calabrese, DO and M. Elaine Husni, MD, MPH

PLENARY SESSION – THE SCIENTIFIC BASIS OF WELLNESS
Moderator: Leonard H. Calabrese, DO

8:15 am  RJ Fasenmyer Annual Lectureship
Wellness in Medicine 2019 – Why Is It Important and Whose Job Is It?
Michael Roizen, MD

9:00 am  Dietary Interventions and Longevity: Basic Translational and Clinical Implications
Valter Longo, PhD

9:45 am  Refreshment Break and Exhibits

10:15 am  Affective Immunology: The Science of Happiness and Immunity
Fulvio D’Acquisto, PhD

11:00 am  What Are the Lessons of Building a Medical Home for IBD for the Rheumatologist?
Miguel Regueiro, MD

11:45 am  Roundtable
Leonard H. Calabrese, DO and M. Elaine Husni, MD, MPH

12:05 pm  Lunch Break

ROUNDUP TIME

1:20 pm  Immune-Mediated Inflammatory Diseases Roundup 2019
Arthur Kavanaugh, MD and John J. Cush, MD

RHEUMATOLOGY – NEUROLOGY
Moderator: Rula Hajj-Ali, MD

2:20 pm  Autoimmune Encephalitis - What the Rheumatologist Needs to Know
Jeffrey M. Gelfand, MD

2:45 pm  Neurosarcoidosis or CNS Vasculitis – Same or Different?
Jeffrey M. Gelfand, MD

3:10 pm  Refreshment Break and Exhibits

3:40 pm  Myositis Advances in Therapy
Chester V. Oddis, MD

4:05 pm  Rheumatology – Neurology: Cases with the Masters
Moderator: Rula Hajj-Ali, MD
Panel: Leonard H. Calabrese, DO; John J. Cush, MD; Jeffrey M. Gelfand, MD; Arthur Kavanaugh, MD; and Chester V. Oddis, MD

4:30 pm  IgG4 Disease – The Penultimate Multidisciplinary Disease – Advances in Pathogenesis and Treatment
John Stone, MD, MPH

5:30 pm  Adjourn

Daily yoga and mindfulness meditation – demonstrating how exercise and mental health affects integrated immunity and the importance of incorporating into clinical practice
### Friday, May 17, 2019

#### 7:30 am  
Registration, Continental Breakfast, and Exhibits

#### RHEUMATOLOGY – INFECTIOUS DISEASE  
**Moderator:** Cassandra Calabrese, DO

**8:00 am**  
Managing Infectious Disease in Rheumatology: Principles for the Rheumatologist  
*Carlos Isada, MD*

**8:20 am**  
Vaccines and IMIDs – Sorting Out the Footnotes  
*Cassandra Calabrese, DO*

**8:40 am**  
Chronic Viral Disease (HIV, HCV, HBV) and the Rheumatologist  
*Leonard H. Calabrese, DO*

**9:00 am**  
Rheumatology – Infectious Disease: Cases with the Masters  
**Moderator:** Cassandra Calabrese, DO  
**Panel:** Carlos Isada, MD and Leonard H. Calabrese, DO

#### RHEUMATOLOGY – DERMATOLOGY  
**Moderator:** M. Elaine Husni, MD, MPH

**9:25 am**  
Psoriatic Arthritis in 2019 – Advances in Therapy  
*M. Elaine Husni, MD, MPH*

**9:50 am**  
Must Know Dermatologic Conditions for the Rheumatologist  
*Anthony Fernandez, MD, PhD*

**10:10 am**  
Rheumatology and Dermatology: Cases with the Masters  
**M. Elaine Husni, MD, MPH and Anthony Fernandez, MD, PhD**

**10:35 am**  
Refreshment Break and Exhibits

#### RHEUMATOLOGY – OPHTHALMOLOGY  
**Moderator:** Rula Hajj-Ali, MD

**11:00 am**  
Primer of Inflammatory Eye Disease for Rheumatologists  
*James Rosenbaum, MD*

**11:25 am**  
Neuro-ocular Diseases: Endotheliopathies and Beyond  
*Rula Hajj-Ali, MD*

**11:50 am**  
Rheumatology – Ophthalmology: Cases with the Masters  
**Moderator:** Rula Hajj-Ali, MD  
**Panel:** James Rosenbaum, MD and Sunil Srivastava, MD

**12:15 pm**  
Lunch Break

#### RHEUMATOLOGY – PULMONOLOGY  
**Moderator:** Soumya Chatterjee, MD

**1:30 pm**  
Pulmonary Hypertension – When to Screen, How to Treat in Rheumatic Diseases  
*Virginia Steen, MD*

**1:55 pm**  
Sarcoidosis – Pulmonic and Extra-Pulmonic Manifestations  
*Daniel Culver, DO*

**2:20 pm**  
Interstitial Lung Disease – Advances in Classification and Treatment for the Rheumatologist  
*Kristin Highland, MD*

**2:45 pm**  
PSS – Advances in Therapy  
*Soumya Chatterjee, MD*

**3:10 pm**  
Rheumatology-Pulmonology: Cases with Masters  
**Moderator:** Soumya Chatterjee, MD  
**Panel:** Daniel Culver, DO; John J. Cush, MD; Kristin Highland, MD; Arthur Kavanaugh, MD; and Virginia Steen, MD

**3:35 pm**  
Refreshment Break and Exhibits

#### RHEUMATOLOGY – ONCOLOGY  
**Moderator:** Leonard H. Calabrese, DO

**4:00 pm**  
Next Wave of Immunotherapy for Cancer  
*Vamsidhar Velcheti, MD*

**4:20 pm**  
Interdisciplinary Management of irAEs  
*Leonard H. Calabrese, DO*

**4:45 pm**  
Rheumatology-Oncology: Cases with the Masters  
*Leonard H. Calabrese, DO and Vamsidhar Velcheti, MD*

**5:10 pm**  
Adjourn

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*Each lecture will conclude with a 5-minute question and answer period.*
General Information and Registration

Location
Global Center for Health Innovation
1 St. Clair Avenue NE
Cleveland, OH 44114

Hotel Accommodations
Hilton Cleveland Downtown
100 Lakeside Avenue East
Cleveland, OH 44114
216.413.5000

A limited block of rooms has been reserved at the Hilton Cleveland Downtown only until April 15, 2019. To make your reservations, book online at www.ccfcme.org/Hotelbio for special rate of $175.00 per night for a standard room.

Accreditation
The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates:

- **Biologic Therapies VIII Summit**
  - live activity for a maximum of 14.25 AMA PRA Category 1 Credits™.

- **Vasculitis: Multidisciplinary Care for Multisystem Diseases Symposium**
  - live activity for a maximum of 7 AMA PRA Category 1 Credits™.

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.

Other Health Care Professionals
A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

American Board of Internal Medicine MOC
Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to

- 14.25 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program for **Biologic Therapies VIII Summit**

- 7 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program for **Vasculitis: Multidisciplinary Care for Multisystem Diseases Symposium**

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 points.

Registration

**Vasculitis: Multidisciplinary Care for Multisystem Diseases Symposium**

**May 15, 2019**

Fee includes: continental breakfasts, refreshment breaks, and faculty presentations, available online

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**Biologic Therapies VIII Summit: The Intersection of Rheumatology and Allied Specialties and 28th Annual Cleveland Review of Rheumatic Diseases**

**May 16-17, 2019**

Fee includes: continental breakfasts, refreshment breaks, and faculty presentations, available online

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Group Discount Available
Groups of 3 or more from the same office/institution will receive a 25% discount off the full registration fee. Registrants must call 216.448.8710 to receive a promotional code for special pricing.

Registration and Cancellation
Preregistrations are accepted until 2:00 pm ET on May 14, 2019. Please register on site after this date. In case of cancellation, email notification is required to issue your refund. A full refund will be made if canceled by April 15, 2019. After April 15, 2019, a $100 cancellation fee will be deducted from your refund. No refunds will be issued after May 1, 2019.

For questions about registration or cancellation, email us at cmeregistration@ccf.org or call 216.448.8710.

For further information about faculty disclosure, parking, and American Disability Act, visit www.ccfcme.org/BioVIII

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely 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 meeting cancellations or changes.
## Agenda

Wednesday, May 15, 2019

<table>
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<tr>
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<tr>
<td>7:00 am</td>
<td>Registration, Continental Breakfast, and Exhibits</td>
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<tr>
<td>8:00 am</td>
<td>Welcome and Introduction</td>
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<tr>
<td></td>
<td>Leonard H. Calabrese, DO</td>
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<td>Professor of Medicine</td>
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<td>Alexandra Villa-Forte, MD, MPH</td>
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<td>Non-Vasculitic Vasculopathies</td>
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### Cleveland Clinic Activity Directors

- **Leonard H. Calabrese, DO**
  - Professor of Medicine
  - Cleveland Clinic Lerner College of Medicine
  - R.J. Fasenmyer Chair of Clinical Immunology
  - Orthopaedic and Rheumatologic Institute

- **Rula Jajj-Ali, MD**
  - Associate Professor of Medicine
  - Cleveland Clinic Lerner College of Medicine
  - Department of Rheumatologic and Immunologic Diseases
  - Orthopaedic and Rheumatologic Institute

- **Carol Langford, MD, MHS**
  - Harold C. Schott Endowed Chair in Rheumatic and Immunologic Diseases
  - Director, Center for Vasculitis Care and Research
  - Department of Rheumatic and Immunologic Diseases
  - Orthopaedic and Rheumatologic Institute

---

### GRANULOMATOSIS WITH POLYANGIITIS (GPA)

**Moderator:** Carol Langford, MD, MHS

- **8:05 am** GPA: Overview and Treatment in 2019
  - John Stone, MD, MPH

- **8:35 am** Pulmonary Involvement in GPA: Parenchymal and Bronchial Disease
  - Thomas Gildea, MD

- **9:00 am** Nephrology Perspective: Renal Disease in GPA
  - James F. Simon, MD

- **9:25 am** Granulomatosis with Polyangiitis (GPA): Cases with the Masters
  - Moderator: Carol Langford, MD, MHS
  - Panel: John Stone, MD, MPH; Thomas Gildea, MD; and James F. Simon, MD

---

### EOSINOPHILIC GRANULOMATOSIS WITH POLYANGIITIS (EGPA)

**Moderator:** Carol Langford, MD, MHS

- **10:15 am** EGPA: Overview and Treatment in 2019
  - Rula Hajj-Ali, MD

- **10:40 am** Asthma and EGPA
  - Sumita Khatri, MD

- **11:05 am** Hypereosinophilia: Diagnoses Beyond EGPA
  - Fred Hsieh, MD

- **11:30 am** Eosinophilic Granulomatosis with Polyangiitis (EGPA): Cases with the Masters
  - Moderator: Carol Langford, MD, MHS
  - Panel: Rula Hajj-Ali, MD; Sumita Khatri, MD; and Fred Hsieh, MD

---

### GIANT CELL ARTERITIS (GCA)

**Moderator:** Carol Langford, MD, MHS

- **1:45 pm** Imaging in Large Vessel Vasculitis
  - Peter Grayson, MD

- **2:15 pm** Non-Vasculitic Vasculopathies
  - Heather Gornik, MD

---

### CUTANEOUS VASCULITIS

**Moderator:** Adam Brown, MD

- **3:45 pm** Cutaneous Vasculitis: Views from a Rheumatologist
  - Carmen Gota, MD

- **4:10 pm** Cutaneous Vasculitis: Views from a Dermatologist
  - Anthony Fernandez, MD, PhD

- **4:35 pm** Cutaneous Vasculitis: Cases with the Masters
  - Moderator: Adam Brown, MD
  - Panel: Carmen Gota, MD and Anthony Fernandez, MD, PhD

- **5:00 pm** Adjourn
Overview
Attend for an update on the multisystem nature of vasculitic diseases and the role of multidisciplinary collaboration in patient care. Experts from diverse medical specialties will discuss how specific disease features can impact the approach to diagnosis and management in vasculitis.

Learning Objectives
- Describe recent advances in the treatment of granulomatosis with polyangiitis and the impact of lung and kidney involvement on management
- Recognize the therapeutic approaches used for asthma and other features of eosinophilic granulomatosis with polyangiitis and how to differentiate this disease from other causes of hypereosinophilia
- Identify the immunosuppressive treatment options in giant cell arteritis, the role of imaging in its diagnosis and follow-up, and the spectrum of nonvasculitic disease that can affect the large vasculitic vessels
- Discuss the presentation, differential diagnosis, and treatment of cutaneous vasculitis

Who Should Attend
This symposium is directed towards rheumatologists, nephrologists, pulmonologists, dermatologists, neurologists, and associated allied health practitioners interested in vasculitis.
**Guest Faculty**

**Peter Grayson, MD**  
Head, NIAMS  
Vasculitis Translational Research Program  
National Institutes of Health  
Bethesda, MD

**John Stone, MD, MPH**  
Professor of Medicine  
Harvard Medical School  
The Edward Fox Chair in Medicine  
Director of Clinical Rheumatology  
Massachusetts General Hospital  
Boston, MA

**Cleveland Clinic Faculty**

**Adam Brown, MD**  
Center for Vasculitis Care and Research  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute

**Anthony Fernandez, MD, PhD**  
Director of Medical Dermatology  
W.D. Steck Chair of Clinical Dermatology  
Departments of Dermatology and Anatomic Pathology  
Dermatology and Plastic Surgery Institute

**Thomas Gildea, MD**  
Department of Pulmonary, Allergy, and Critical Care Medicine  
Respiratory Institute

**Heather Gornik, MD**  
Section Head, Vascular Medicine  
Department of Cardiovascular Medicine  
Heart and Vascular Institute

**Fred Hsieh, MD**  
Allergy and Clinical Immunology  
Respiratory Institute

**Sumita Khatri, MD**  
Department of Pulmonary and Critical Care Medicine  
Respiratory Institute

**James F. Simon, MD**  
Assistant Professor of Medicine  
Cleveland Clinic Lerner College of Medicine  
Department of Nephrology and Hypertension  
Glickman Urologic and Kidney Institute

**Alexandra Villa-Forte, MD, MPH**  
Center for Vasculitis Care and Research  
Department of Rheumatic and Immunologic Diseases  
Orthopaedic and Rheumatologic Institute

**Carmen Gota, MD**  
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