### 33rd Annual Harold S. Nelson Military Allergy/Immunology Symposium

**Rhinosinusitis/Ocular Allergy Session Details**

**Thursday, February 21, 2019: 7:20 AM-3:15 PM**

- **Moscone Center South, Exhibition Level, Hall D7**
- **6.50 CME/CE Symposium**

**Moderator:** Camellia Hernandez, MD

**Learning Objectives:**

1. Discuss what is currently known about sinus disease with nasal polyps and medical conditions associated with nasal polyps like AERD
2. Discuss the classic presentations of VCD and be able to distinguish it from asthma
3. Discuss the methods to accurately diagnose VCD and understand the basic principles for the treatment of VCD

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>7:20 AM</td>
<td>Registration and Breakfast</td>
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<tr>
<td>7:50 AM</td>
<td>Welcome and Overview</td>
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<tr>
<td>8:00 AM</td>
<td>Morning Address: Biologics in the Treatment of Asthma</td>
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<tr>
<td></td>
<td>William W Busse, MD FAAAAI</td>
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<tr>
<td>9:00 AM</td>
<td>Break</td>
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<tr>
<td>9:15 AM</td>
<td>Case Reports (Has space for five abstracts at 15 minutes each)</td>
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<tr>
<td>10:30 AM</td>
<td>Original Research (Has space for three abstracts at 15 minutes each)</td>
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<tr>
<td>11:20 AM</td>
<td>Defense Health Agency: Immunization Healthcare Branch Update</td>
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<td>Limone C. Collins Jr., MD</td>
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<tr>
<td>11:35 AM</td>
<td>Military Aeroallergen Extract Laboratory Updates</td>
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<td>Brian D Robertson, MD</td>
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<tr>
<td>11:45 AM</td>
<td>Lunch</td>
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<tr>
<td>12:10 PM</td>
<td>Bruton Lecture: Exercise-Induced Vocal Cord Dysfunction in Adolescents</td>
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<td>Stephen A. Tilles, MD FAAAAI</td>
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<td>1:15 PM</td>
<td>Consultants to the Surgeons General Updates</td>
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<td>1:20 PM</td>
<td>VHA Allergy Committee</td>
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<td>Joseph S. Yusin, MD FAAAAI</td>
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<tr>
<td>1:35 PM</td>
<td>Air Force</td>
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<td>John F. Freiler, MD FAAAAI</td>
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<tr>
<td>1:50 PM</td>
<td>Army</td>
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<td></td>
<td>Kirk H. Waibel, MD FAAAAI</td>
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<tr>
<td>2:05 PM</td>
<td>Navy</td>
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<td>Rachel Umi Lee, MD FAAAAI</td>
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<tr>
<td>2:20 PM</td>
<td>Interactive Small Group Discussion</td>
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<tr>
<td>2:25 PM</td>
<td>VHA Allergy Committee Panel Discussion Speaker</td>
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<td>Joseph S. Yusin, MD FAAAAI</td>
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<td>2:30 PM</td>
<td>Air Force Panel Discussion Speaker</td>
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<td>Hans F. Otto, MD FAAAAI</td>
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<tr>
<td>2:35 PM</td>
<td>Army Panel Discussion Speaker</td>
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0201  Basic Aeroallergen Course  TICKETED
Allergens/Allergy Testing/Allergy Therapeutics

**Session Details**
Thursday, February 21, 2019: 9:00 AM-5:00 PM
Moscone Center South, Exhibition Level, Hall D8
7.00 CME/CE

**Course**

**Moderator:**
Estelle Levetin, PhD FAAAAI

**Learning Objectives:**
1. Describe the basics of setting up a sampling station and the value of air sampling in a clinical practice and also the value for the AAAAI
2. Describe the fundamentals of fungal and plant reproductive biology as it relates to aeroallergens
3. Describe the basic features of pollen and fungal spore morphology and identify the most common pollen and spore types

- **9:00 AM** Welcome and Introduction to Course
- **9:05 AM** Introduction to Fungal Aerobiology
  - W. Elliott Horner, PhD LEED AP FAAAAI
- **9:45 AM** Fungal Spore Morphology
  - Estelle Levetin, PhD FAAAAI
- **10:25 AM** Hands-On Instruction; Question and Answer
- **12:00 PM** Lunch Break
- **1:00 PM** Value of Air Sampling for Your Practice and for the AAAAI
  - Kraig W. Jacobson, MD
- **1:15 PM** Setting up a Sampling Station/ Hands-On Sampler Demonstration
  - Estelle Levetin, PhD FAAAAI
- **2:00 PM** Introduction to Pollen Aerobiology
  - Peter K. Van De Water, PhD
- **2:30 PM** Pollen Morphology
  - Richard W. Weber, MD FAAAAI
- **3:10 PM** Hands-On Instruction; Question and Answer

2:00 PM-4:30 PM

0601  2019 Literature Review: ABAI Continuous Assessment Study Course  TICKETED
Allergens/Allergy Testing/Allergy Therapeutics

**Session Details**
Thursday, February 21, 2019: 2:00 PM-4:30 PM
Moscone Center South, Level 2, Room 203
2.50 CME/CE

**Course**

**Moderator:**
Denise A. DiPrimio-Kalman, DO FAAAAI

**Learning Objectives:**
1. Discuss recently published research relevant to the practice of allergy/immunology

- **2:00 PM** Immune Deficiency/Autoimmunity/Immune-Based Disorders
  - John M. Routes, MD FAAAAI
- **2:30 PM** Question & Answer
- **2:35 PM** Mast Cell Disorders/Eosinophilic Disorders/Anaphylaxis/Drug-Insect-Vaccine Allergy
  - Princess U. Ogbogu, MD FAAAAI
- **3:05 PM** Question & Answer
- **3:10 PM** Asthma & Other Lung Diseases/Allergy Testing & Therapeutics/Rhinosinusitis/Ocular Allergy
  - Bradley E. Chips, MD
- **3:40 PM** Question & Answer
- **3:45 PM** Food Allergy/Allergic & Immunologic Skin Disorders/Urticaria-Angioedema
  - John M. Kelso, MD FAAAAI
- **4:15 PM** Question & Answer

**Friday, February 22, 2019**

https://aaaai.confex.com/aaaai/2019/webprogram/meeting.html
2019 FIT Symposium
Allergy Office Practice

Session Details
Friday, February 22, 2019: 7:00 AM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 9
0.00 CME/CE

Moderator:
Canting Guo, MD

Course
Learning Objectives:
1. Describe emerging therapies for asthma
2. Discuss the treatment of allergies in a pregnant patient
3. Discuss post fellowship Allergy and Immunology careers and negotiating a contract

7:00 AM  Networking Breakfast
7:45 AM  Introduction
7:50 AM  Networking Committees and Organizations
8:05 AM  American Board of Allergy and Immunology
8:15 AM  Speaker-facilitated Small Group Discussion: Pregnancy and Allergic Disease
          Michael Schatz, MD MS FAAAAI
8:45 AM  Break
8:50 AM  Welcome from AAAAI President
          Robert A. Wood, MD FAAAAI
9:05 AM  Optimal Care of the Food Allergic Patient
          Robert A. Wood, MD FAAAAI
9:35 AM  The Latest on Biologics and Allergy
          Monica Kraft, MD FAAAAI
10:05 AM  Break
10:20 AM  Career Panel: Industry
          Kari R. Brown, MD
10:35 AM  Career Panel: Government
          Kelly D. Stone, MD PhD FAAAAI
10:50 AM  Career Panel: Private
          Toral A. Kamdar, MD
11:05 AM  Career Panel: Academia
          Vivian P. Hernandez-Trujillo, MD FAAAAI
11:20 AM  Speaker-facilitated Small Group Discussion: Interactive Contract Negotiations Session
          Weily Soong, MD FAAAAI
12:20 PM  Networking Lunch

7:30 AM-1:45 PM

2019 Chrysalis Project Program (Invitation Only) TICKETED
Allergy Office Practice

Session Details
Friday, February 22, 2019: 7:30 AM-1:45 PM
Marriott, Lower B2 Level, Salon 6
0.00 CME/CE

Learning Objectives:
1. Discuss a number of conditions commonly encountered in the practice of allergy/immunology

7:30 AM  Breakfast
8:00 AM  Welcome from Chrysalis Chairs
          A. Wesley Burks, MD FAAAAI
8:15 AM  Welcome from Chrysalis Chairs
          Kimberly A. Risma, MD, PhD FAAAAI
8:30 AM  Welcome from the AAAAI President
          Robert A. Wood, MD FAAAAI
8:35 AM  Immunodeficiency
          Thomas A. Fleisher, MD FAAAAI
9:05 AM  Eosinophilic Disorders
          Amy D. Killion, MD
9:35 AM  Food Allergy
          A. Wesley Burks, MD FAAAAI
10:05 AM  Asthma
10:35 AM  Break
10:45 AM  Atopic Dermatitis
1102  Allied Health: FPIES: Diagnosis and Management

**Session Details**
Friday, February 22, 2019: 8:00 AM-9:15 AM
Moscone Center South, Exhibition Level, Hall D10
1.25 CME/CE

**Workshop**

**Moderator:**
Amy Arneson, RN

**Learning Objectives:**
1. Discuss the current diagnosis and the development of diagnostic tests for FPIES
2. Describe the differences in the food challenge procedure for FPIES as compared to IgE mediated food allergy
3. Describe the impact of FPIES on family life

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>FPIES: Impact on the Family</td>
<td>Fallon Schultz, MSW LCSW CAM</td>
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<tr>
<td>8:20 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>8:25 AM</td>
<td>Oral Food Challenges for FPIES</td>
<td>Jennifer Fishman, RN</td>
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<td>8:45 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>8:50 AM</td>
<td>Overview and Current Research in FPIES</td>
<td>Anna H. Nowak-Wegrzyn, MD PhD FAAAAI</td>
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<td>9:10 AM</td>
<td>Question &amp; Answer</td>
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1103  Allied Health: Improving Asthma Control Through Telemedicine

**Session Details**
Friday, February 22, 2019: 8:00 AM-9:15 AM
Moscone Center South, Exhibition Level, Hall D9
1.25 CME/CE

**Workshop**

**Learning Objectives:**
1. Discuss how telemedicine is transforming health care
2. Discuss strategies in clinical management of allergic diseases in the practice of telemedicine
3. Discuss billing and coding in an allergy and asthma clinic using telemedicine

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<tr>
<th>Time</th>
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<th>Presenter</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Telemedicine: Implementation and Evidence-Based Decision Making</td>
<td>Jennifer A. Shih, MD</td>
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<td>8:20 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>8:25 AM</td>
<td>Telemedicine in the Allergy and Asthma Clinic</td>
<td>Michelle R. Dickens, MSN FNP-C AE-C</td>
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<td>8:45 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>8:50 AM</td>
<td>The Cost: Billing and Coding for Telemedicine</td>
<td>Teresa Thompson, CPC CMSCS CCC</td>
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<td>9:10 AM</td>
<td>Question &amp; Answer</td>
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Moscone Center South, Exhibition Level, Hall D8
4.00 CME/CE
Course

**Moderator:**
Karen L. Gregory, DNP APRN-BC RRT AE-C

**Learning Objectives:**
1. Discuss current clinical updates and resources in the field of allergy/immunology
2. Discuss ways to integrate current data into clinical practice
3. Identify allergy and immunology resources to continue future development of allergy and immunology practice

- **8:00 AM** Introductory Remarks
- **8:05 AM** Asthma-COPD Overlap
  Monica Kraft, MD FAAAAI
- **8:40 AM** Question & Answer
- **8:45 AM** Stinging Insect Hypersensitivity
  Amanda S. Troger, BSN RN CPN
- **9:30 AM** Question & Answer
- **9:45 AM** Break
- **10:00 AM** Accelerated Immunotherapy Options
  Cheryl K. Bernstein, RN BSN CCRC
- **10:35 AM** Question & Answer
- **10:50 AM** When to Use and How to Choose a Substitute Formula or Milk?
  Marion E. Groetch, MS RD
- **11:25 AM** Question & Answer
- **11:40 AM** Medication Update in Atopic Dermatitis
  Karol G. Timmons, RN MS CPNP
- **12:15 PM** Question & Answer

8:45 AM-12:00 PM

**1110 Boot Camp for Program Directors and Clinical Faculty: How to Develop and Maintain Excellence in Allergy/Immunology Fellowships**

**Allergy Office Practice**

**Session Details**
Friday, February 22, 2019: 8:45 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 160
0.00 CME/CE

**Course**

**Moderator:**
David A. Khan, MD FAAAAI

**Learning Objectives:**
1. Develop the teaching skills of upcoming, new and current Allergy/Immunology fellowship Program Directors & Associate Program Directors, “core” A/I fellowship faculty, community volunteer clinical faculty, and those interested in becoming faculty
2. Present practical tips for developing and enhancing an A/I fellowship program in the context of the “next accreditation system” and new ACGME requirements for 2019
3. Organize and support the development of Allergy/Immunology Program Directors, fellowship “core” faculty, community volunteer clinical faculty, and those interested in becoming faculty

- **8:45 AM** The Nuts & Bolts of Building an A/I Fellowship Program: The Present and New 2019 ACGME Requirements
  Javed Sheikh, MD FAAAAI
- **9:15 AM** Taking the Next Step: Teaching and Leadership Roles in Fellowship Training
  Mary Beth Fasano, MD FAAAAI
- **9:45 AM** Coffee Break
- **10:00 AM** Dates, Deadlines and Developing a Fellowship Year Calendar
- **10:30 AM** Tools for Assessing Procedural Competency
  Paul J. Dowling, MD FAAAAI
- **11:00 AM** Enhancing Teaching: Using the “New AAAAI Toolbox”
  Christopher Chang, MD PhD MBA FAAAAI
- **11:30 AM** Directing an A/I Fellowship Program: Ask the Expert Panel Discussion

9:00 AM-12:00 PM

**1201 Difficult Cases 1 and Difficult Cases 2**

**Allergens/Allergy Testing/Allergy Therapeutics**

**Session Details**
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
3.00 CME/CE

**Course**

**Moderator:**
Ashwini Reddy, MD

**Learning Objectives:**
1. Identify various allergic/immunologic diseases in a case presentation
2. Apply information of diagnosing & treating diseases to clinical practice
3. Review new/unusual presentations of common disease processes

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<th>Time</th>
<th>Session Title</th>
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<tr>
<td>9:00 AM</td>
<td>FPIES/Non-Ige Mediated Food Allergy</td>
<td>Gita Ram, MD</td>
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<td>9:15 AM</td>
<td>FPIES/Non-Ige Mediated Food Allergy</td>
<td>Matthew J. Greenhow, MD MBA MSi</td>
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<td>9:30 AM</td>
<td>Question &amp; Answer</td>
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<td>9:35 AM</td>
<td>Very Early Onset IBD/Immunodeficiency Overlap</td>
<td>Margaret Redmond, MD</td>
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<td>9:50 AM</td>
<td>Very Early Onset IBD/Immunodeficiency Overlap</td>
<td>Kathleen E. Sullivan, MD PhD AAAAI</td>
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<td>10:05 AM</td>
<td>Question &amp; Answer</td>
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<td>10:10 AM</td>
<td>Peanut Oral Immunotherapy for IgE-Mediated Food Allergy (Indications and Potential Complications)</td>
<td>Brian P. Vickery, MD AAAAI</td>
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<td>Question &amp; Answer</td>
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<td>10:45 AM</td>
<td>Unusual Anaphylaxis</td>
<td>Maureen E Bauer, MD</td>
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<td>11:00 AM</td>
<td>Unusual Anaphylaxis</td>
<td>Philip L. Lieberman, MD AAAAI</td>
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<td>Question &amp; Answer</td>
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<td>11:20 AM</td>
<td>Severe Asthma/Severe Exercise Induced Asthma</td>
<td>Margaret Louisias, MD, MPH</td>
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<td>11:35 AM</td>
<td>Severe Asthma/Severe Exercise Induced Asthma</td>
<td>Elizabeth C. Matsui, MD MHS</td>
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<td>Question &amp; Answer</td>
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<td>11:55 AM</td>
<td>Immunodeficiency Masqueraders</td>
<td>Cullen M. Dutmer, MD</td>
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<td>12:10 PM</td>
<td>Immunodeficiency Masqueraders</td>
<td>Neil D. Romberg, MD</td>
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<td>12:25 PM</td>
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**Problem-Based Learning: A Patient With COPD, Severe Asthma or Both?**

**Session Details**
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall D12
3.00 CME/CE

**Moderator:**
Don A. Bukstein, MD

**Learning Objectives:**
1. Compare and contrast characteristics of COPD and asthma
2. Evaluate tests to help diagnose COPD, asthma and “overlap syndrome”
3. Discuss the COPD GOLD Guidelines and where the newer combination agents fit in therapy

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<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>Patient with COPD, Severe Asthma or Both: PBL Case Presentation</td>
<td>Don A. Bukstein, MD</td>
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<td>9:50 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>9:55 AM</td>
<td>Is It COPD Vs Asthma VS Overlap Syndrome?</td>
<td>Juan Carlos Cardet, MD, MPH</td>
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<td>10:15 AM</td>
<td>Question &amp; Answer</td>
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<td>10:20 AM</td>
<td>Update on Diagnosis for COPD/Asthma Overlap Syndrome</td>
<td>Elliot Israel, MD AAAAI</td>
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<td>10:40 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>10:45 AM</td>
<td>Optimal Therapies for COPD/Asthma Overlap Syndrome</td>
<td>John Oppenheimer, MD AAAAI</td>
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<td>11:05 AM</td>
<td>Panel Discussion</td>
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**Introductory Course in Rhinolaryngoscopy with Hands-On Instruction**

**Session Details**
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall D4
3.00 CME/CE

**Moderator:**
Jerald W. Koepke, MD AAAAI
Learning Objectives:
1. Describe the major anatomical structures of the nasal, pharyngeal and glottic areas as visualized during examination with the fiber-optic rhinolaryngoscope
2. Describe variations of normal seen when participants examine one another in this hands-on session
3. Discuss and demonstrate the proper handling and initial skills needed to perform a comprehensive upper airway examination with a fiberoptic endoscope

9:00 AM Introductory Course in Rhinolaryngoscopy with Hands-On Instruction
Jerald W. Koepke, MD FAAAAI

10:00 AM Hands-On Learning
Instructor
Allen D. Adinoff, MD FAAAAI

Instructor
Grant C. Olson, MD

Instructor
Kevin R. Murphy, MD

Instructor
Donald W. Pulver, MD FAAAAI

Instructor
C. Ross Westley, MD FAAAAI

Best of the Practice Management Workshop: Expanding the Scope of Practice
Allergy Office Practice

Session Details
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Level 2, Room 205
3.00 CME/CE

Moderator:
A. Sean McKnight, MD FAAAAI

Learning Objectives:
1. Discuss the billing requirements and to apply the appropriate codes for expanded allergy procedures
2. Discuss staffing requirements for safe delivery of the different allergy treatments in an outpatient/clinic setting
3. Describe the value of utilizing telehealth in delivering allergy and immunology services

9:00 AM Biologics
Wiley Soong, MD FAAAAI

9:25 AM Question & Answer

9:30 AM Telehealth
Jennifer A. Shih, MD

9:55 AM Question & Answer

10:00 AM HAE and IVIG Therapies
Michael R. Rupp, MD FAAAAI

10:25 AM Question & Answer

10:30 AM Food Challenge and OIT
Mohamed S. Yassin, MD FAAAAI

10:55 AM Question & Answer

11:00 AM Proper Coding and Billing Procedures
Teresa Thompson, CPC CMSCS CCC

11:25 AM Question & Answer

11:30 AM Managing Conflicts in Your Practice
Priya J. Bansal, MD FAAAAI

11:55 AM Question & Answer

How Microbes Affect Allergic Illnesses
Immune Mechanisms

Session Details
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Level 3, Room 301
3.00 CME/CE

Moderator:
David I. Bernstein, MD FAAAAI

Learning Objectives:
1. Describe the relationship between viral infections and asthma
2. Identify at least two airway bacteria that are associated with the risk for respiratory illnesses and asthma
3. Describe the relationship between early life infections, airway microbes, and patterns of lung function

9:00 AM Environmental Exposures: The Gut Microbiome and the Development of Allergic Diseases
Yvonne Huang, MD

9:20 AM Question & Answer
The Respiratory Virome in Preschool Asthma
Nikolaos G. Papadopoulos, MD PhD FRCP FAAAAI

9:45 AM
Question & Answer

Lung Function and the Airway Microbiome in Early Life
Kirsten M Kloepfer, MD MS

10:35 AM
Question & Answer

Virus-Bacterial Interactions and the Onset of Childhood Asthma
James E. Gern, MD FAAAAI

10:40 AM
Hot Topics in Viruses and Asthma
Joshua L. Kennedy, MD

11:00 AM
Question & Answer

Hot Topics in the Microbiome and Food Allergy
Christina E. Ciaccio, MD FAAAAI

11:25 AM
Panel Discussion

The Circus Surrounding Peanuts: The Genetic and Molecular Mechanisms Driving Peanut Allergy
Food Allergy

Session Details
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Level 2, Room 203
3.00 CME/CE
Course
Moderator:
Dawn C. Newcomb, PhD

Learning Objectives:
1. Describe and decipher the genetic and molecular biology mechanisms driving food allergy
2. Discuss potential treatments for patients with food allergies
3. Discuss the various genetic and environmental risk factors associated with food allergy

9:00 AM
The Importance of a Well-Characterized Patient Cohort for Food Allergy Research
Leah Claire Nesbitt Kottyan, PhD

9:20 AM
Skin Barrier Mutations and Food Allergy
Joan Cook-Mills, PhD

9:50 AM
Transcriptomic Analysis of Peanut Allergy
Supinda Bunyavanich, MD MPH FAAAAI

10:20 AM
Immunologic Tolerance to Foods
Wayne G. Shreffler, MD PhD FAAAAI

10:50 AM
Epigenetics and Food Allergy
Kari C. Nadeau, MD PhD

11:20 AM
Immunodeficiency and Food Allergy

11:30 AM
Discussion

Immunotherapy in the Pregnant Patient
Tolly Epstein, MD FAAAAI

9:20 AM
Question & Answer

Immunotherapy in a Peanut-Allergic Child
Anna H. Nowak-Wegrzyn, MD PhD FAAAAI

9:50 AM
Question & Answer

Hands-On Workshop: IT Counts: Interactive Patient Cases TICKETED
Allergy Office Practice

Session Details
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 159
3.00 CME/CE
Course
Primary Moderators:
Peter S. Creticos, MD FAAAAI
Linda s Cox, MD FAAAAI

Learning Objectives:
1. Discuss management decisions about when to use allergen immunotherapy in an interactive simulated case-management format
2. Identify and assess the safety of allergen immunotherapy in a case-management format
3. Discuss the principles of allergen selection, dose and duration of allergen immunotherapy

9:00 AM
Immunotherapy in the Pregnant Patient
Tolly Epstein, MD FAAAAI

9:20 AM
Question & Answer

9:30 AM
Immunotherapy in a Peanut-Allergic Child
Anna H. Nowak-Wegrzyn, MD PhD FAAAAI

9:50 AM
Question & Answer
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<th>Time</th>
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<tr>
<td>10:00 AM</td>
<td><strong>Improving Your MIPS Score by Promoting Adherence to Asthma Therapy</strong></td>
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<td><strong>Allergy Office Practice</strong></td>
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<td>Friday, February 22, 2019: 9:00 AM-12:00 PM</td>
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<td><strong>Course</strong></td>
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<td><strong>Moderator:</strong> Chitra Dinakar, MD FAAAAI</td>
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<td><strong>Learning Objectives:</strong></td>
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<td>1. Discuss the relationship of improving adherence to asthma therapy and factors that impact MIPS scores</td>
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<td>2. Discuss methods to measure adherence as well as barriers and patient behaviors that result in non-adherence</td>
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<td>3. Describe strategies and communication techniques to overcome barriers and behaviors responsible for non-adherence</td>
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<tr>
<td>9:00 AM</td>
<td>Understanding the Relationship between Scoring High in MIPS and Achieving Adherence for Your Asthma Population</td>
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<td>Gary C. Steven, MD PhD FAAAAI</td>
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<td>9:20 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>9:25 AM</td>
<td>Evaluating Methods to Measure Asthma Patient Adherence</td>
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<td>Andrea J. Apter, MD MA MSc FAAAAI</td>
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<tr>
<td>9:45 AM</td>
<td>Question &amp; Answer</td>
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<td>9:50 AM</td>
<td>Barriers and Behaviors Responsible for Non-Adherence</td>
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<td>Chitra Dinakar, MD FAAAAI</td>
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<td>10:10 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>10:15 AM</td>
<td>Effective Strategies to Reverse Non-Adherence and Promote Adherence to Asthma Therapy</td>
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<td>Cynthia S. Rand, PhD</td>
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<td>10:35 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>10:40 AM</td>
<td>Improving Adherence Using Shared Decision Making Communication Skills</td>
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<td>Hazel Tapp, PhD</td>
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<td>11:00 AM</td>
<td>Question &amp; Answer</td>
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<td>11:05 AM</td>
<td>Motivational Interviewing Improves Adherence to Asthma Therapy</td>
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<td>Andrew G. Weinstein, MD FAAAAI</td>
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<td>11:25 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>11:30 AM</td>
<td>Think/Pair/Share: Practicing Motivational Interviewing Skills</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:00 AM</td>
<td><strong>An Old Topic Gets Hot: Lipid Control of Type 2 Immunity</strong></td>
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<td><strong>Immune Mechanisms</strong></td>
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<td><strong>Session Details</strong></td>
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<td>Friday, February 22, 2019: 9:00 AM-12:00 PM</td>
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<td><strong>Course</strong></td>
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<td><strong>Moderator:</strong> Joshua A. Boyce, MD</td>
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<td><strong>Learning Objectives:</strong></td>
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<td>1. Discuss the roles of arachidonic acid metabolites in the onset, persistence and resolution of type 2 immunopathology</td>
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<td>9:00 AM</td>
<td>Prostaglandin D2 in the Transcriptional Control of Th2 Development</td>
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<td>Erik R. Wambre, PhD, MBE</td>
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<tr>
<td>9:25 AM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>9:35 AM</td>
<td>Lipid Mediator-Dependent Homeostasis of Innate Lymphoid Cells</td>
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<td>Taylor A Doherty</td>
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<td>10:00 AM</td>
<td>Question &amp; Answer</td>
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<td>10:10 AM</td>
<td>Leukotriene-Dependent Regulation of Epithelial-Dependent Innate Type 2 Immunity</td>
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<td>Lora Bankova, MD</td>
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<td>10:35 AM</td>
<td>Question &amp; Answer</td>
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</table>
**Pro-Resolving Lipids Control Type 2 Immunopathology**

Stokes Peebles Jr., MD FAAAAI

10:45 AM

**Question & Answer**

11:10 AM

**The Role of COX-1-Derived Prostanoids in the Control of Innate Mast Cell Function**

Dingxin Pan

11:20 AM

**Question & Answer**

11:45 AM

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**Can There Be a Universal Approach to Food Allergy Prevention Guidelines?**

*Food Allergy*

**Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Level 3, Room 305

3.00 CME/CE

**Course**

**Moderator:**

David M. Fleischer, MD FAAAAI

**Learning Objectives:**

1. Discuss the existing evidence and rationale for specific foods supporting their early introduction to reduce the risk of developing food allergy
2. Discuss the pros and cons of having allergist facilitated introduction compared to an open recommendation for all infants to have early introduction without medical intervention
3. Discuss the potential that a child may fail early introduction, and identify the psychosocial needs that such children may require given earlier diagnosis of allergy, as well as potential treatment options available for such children

**9:00 AM**

What Foods Should We be Introducing Early for Protection Against the Development of Food Allergy?

Edmond S. Chan, MD FAAAAI

**9:20 AM**

When Should We Start Early Introduction, and How Do We Balance This within the Developmental Trajectories of Infants and Who Breastfeeding Recommendations?

Debra J Palmer, BSc BND PhD

**9:45 AM**

Should Implementation Strategies with Respect to Screening and the Role of Primary Care in Facilitating Recommendations Differ Among Countries?

Michael E. Levin, MBChC PhD FAAAAI

**10:10 AM**

Has the Voice of the Stakeholder Been Heard in Understanding How to Implement Early Introduction Recommendations?

Jonathan O'B. Hourihane, MD FAAAAI

**10:35 AM**

What Can We Offer the Family with a Child Who Fails Early Introduction?

Scott H. Sicherer, MD FAAAAI

**11:00 AM**

Where Do We Go from Here? What Is the Next Leap in Food Allergy Prevention

**11:25 AM**

Panel Discussion

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**Single Cell Analysis in Human Disease: Lessons Learned from the AADCRC**

*Immune Mechanisms*

**Session Details**

Friday, February 22, 2019: 9:00 AM-12:00 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 155

3.00 CME/CE

**Course**

**Moderator:**

Christine M. Seroogy, MD FAAAAI

**Learning Objectives:**

1. Describe the methodology and variety of uses of single cell analysis in airway epithelial cell biology
2. Discuss the functional diversity of immune cells in nasal polyposis
3. Describe the characteristics of Th2A cells and their contribution to the allergic phenotype

**9:00 AM**

Introductory Remarks

**9:10 AM**

Single Cell Analysis in Nasal Polyposis

Nora A. Barrett, MD

**9:30 AM**

Question & Answer

**9:35 AM**

Single Cell Analysis As a Window to Airway Epithelium Cell Function and Diversity

Prescott Woodruff, MD, MPH

**9:55 AM**

Question & Answer

**10:00 AM**

Single Cell Analysis Reveals Immune Cell Heterogeneity

Kathleen M. Buchheit, MD

**10:20 AM**

Question & Answer

**10:25 AM**

Discovery of Th2A Cells By Single Cell Analysis

Erik R. Wambre, PhD, MBE
11:10 AM  Question & Answer
11:15 AM  Lung Development at the Single Cell Resolution
11:35 AM  Question & Answer
11:40 AM  Panel Discussion

1212  Approach to Delayed Drug Allergic Reactions
Drug/Insect Allergy/Vaccines

Session Details
Friday, February 22, 2019: 9:00 AM-12:00 PM
Moscone Center South, Level 2, Room 207
3.00 CME/CE
Course
Moderator:
Ana Dion Broyles, MD FAAAAI

Learning Objectives:
1. Recognize the heterogenous presentation of delayed drug reactions
2. Describe diagnostic approaches to delayed drug reactions
3. Discuss short and long term management principles for delayed hypersensitivity reactions

9:00 AM  Overview of Delayed Drug Reactions Classification, Mechanisms and Clinical Approaches
Andreas J Bircher, MD

9:20 AM  Question & Answer

9:30 AM  Approaches to Delayed Drug Reactions to Antibiotics: The Role of In Vivo Testing (skin testing and oral challenge)
Antonino Gaetano Romano, MD

9:50 AM  Question & Answer

10:00 AM  Management of Delayed Drug Reactions in Complex Treatment Populations
Michael Roger Ardern-Jones, MD PhD

10:20 AM  Question & Answer

10:30 AM  Case Based Illustration of Approaches to Delayed Drug Hypersensitivity with Audience Response and Active Participation/Discussion from Group
Paul L Bigliardi, MD

10:50 AM  Question & Answer

11:00 AM  Approaches to Delayed Drug Reactions: The Role of Biomarkers, Genetics, Ex Vivo and in Vitro Laboratory Approaches
Elizabeth J Phillips, MD FAAAAI FIDSA

11:20 AM  Panel Discussion

9:30 AM - 10:45 AM

1301  Allied Health: Management Dilemmas and Strategies in Pediatric Food Challenges
Food Allergy

Session Details
Friday, February 22, 2019: 9:30 AM-10:45 AM
Moscone Center South, Exhibition Level, Hall D10
1.25 CME/CE
Workshop
Moderator:
Alexia K. Beauregard, MS RD CSP LD

Learning Objectives:
1. Discuss the strategy to decide on diagnostic challenges in a child with multiple food allergies
2. Discuss the latest information about safe introduction schedules after a negative food challenge
3. Discuss the latest information on early introduction of allergens in the high-risk atopic child

9:30 AM  Diagnostic Challenges in a Child with Multiple Food Allergy
Nicolette De Jong, PhD

9:50 AM  Question & Answer

9:55 AM  Safe Introduction after a Negative Food Challenge.
Berber Vlieg-Boerstra, PhD RD

10:15 AM  Question & Answer

10:20 AM  Early Introduction of Allergens in the High Atopic Child
April Clark, RDN, LD

10:40 AM  Question & Answer

1302  Allied Health: Hot Topics in Allergy: What You May Have Missed in the Literature
Allergen/Allergy Testing/Allergy Therapeutics

Session Details
Friday, February 22, 2019: 9:30 AM-10:45 AM
Moscone Center South, Exhibition Level, Hall D9
1.25 CME/CE
Workshop
Moderator:
Maria Crain, CPNP

Learning Objectives:

1. Describe advances in the field of allergy that were discussed in the literature

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<tr>
<th>Time</th>
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<tr>
<td>9:30 AM</td>
<td>What’s New in Allergic Rhinitis</td>
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<td>9:50 AM</td>
<td>Question &amp; Answer</td>
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<td>9:55 AM</td>
<td>What’s New in Asthma</td>
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<td>Brooke J. Polk, MD</td>
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<td>10:15 AM</td>
<td>Question &amp; Answer</td>
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<td>10:20 AM</td>
<td>What’s New in Atopic Dermatitis</td>
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<td>Megan Ott Lewis, MSN CRNP</td>
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12:00 PM-2:00 PM

Program Directors Assembly (PDA) 2019 Business Meeting

Session Details
Friday, February 22, 2019: 12:00 PM-2:00 PM
0.00 CME/CE

12:00 PM | Lunch

12:15 PM | Program Directors Assembly Business Meeting

12:25 PM | 30th Anniversary of the Program Directors Assembly

12:40 PM | Physician Wellness in Allergy & Immunology: Where We Area and Where We Are Going

1:40 PM | Other Business

2:00 PM | Adjourn

12:30 PM-1:30 PM

1501 Interaction of Irritants and Allergens in Allergic Rhinitis TICKETED
Rhinovirus/Upper Allergy

Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 1
1.00 CME/CE
Seminar
Primary Discussion Leaders:
David Díaz Sanchez, PhD
To be announced.

Learning Objectives:

1. Discuss the effects of selected air pollutants on allergic rhinitis ("adjuvancy" and "priming")
2. Discuss the effects of untreated allergic inflammation on nasal irritant sensitivity and reactivity ("neuromodulation")
3. Identify the clinical ramifications of irritant-allergen interactions in allergic rhinitis

1502 Mast Cell Activation Syndrome: Navigating the Information Maze with Your Patient TICKETED
Mast Cell/Eosinophilic Disorders

Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 14
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Charity C. Fox, MD FAAAAI
Melody C. Carter, MD FAAAAI

Learning Objectives:

1. Develop an approach and materials to provide patients with accurate information about diagnostic criteria and treatment for mast cell activation syndrome

1503 Understanding the Link Between Immunodeficiency and Auto-Inflammation TICKETED
Autoimmune/Auto-inflammatory Disorders

Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 15
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Peter D. Arkwright, MD PhD FAAAAI
Joshua D. Milner, MD

Learning Objectives:

1. Discuss the immune mechanisms triggering autoimmunity and autoinflammation in patients with primary immunodeficiency
2. Discuss the spectrum of clinical inflammatory diseases associated with primary immunodeficiency

1504 Approach to the Patient with IBS TICKETED
Mast Cell/Eosinophilic Disorders

Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 16
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Peter D. Arkwright, MD PhD FAAAAI
Joshua D. Milner, MD

Learning Objectives:

1. Discuss the immune mechanisms triggering autoimmunity and autoinflammation in patients with primary immunodeficiency
2. Discuss the spectrum of clinical inflammatory diseases associated with primary immunodeficiency
Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Nob Hill A
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Anne Marie Ditto, MD FAAAAI
Mary C. Tobin, MD FAAAAI

Learning Objectives:
1. Describe the possible role of food allergy in IBS and how to approach patients presenting with this concern

1505
Asthma Over the Age of 65: All’s Well That Ends Well TICKETED

Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Nob Hill C
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Alan P. Baptist, MD MPH FAAAAI
Paula J. Busse, MD FAAAAI

Learning Objectives:
1. Discuss how asthma symptoms and spirometry may differ in older adults compared to younger populations
2. Identify how unique factors, including asthma COPD overlap (ACO), are associated with poor asthma control and quality of life in older adults
3. Discuss the optimal pharmacologic and non-pharmacologic management strategies for older adults with asthma

1506
Allied Health: Hands on Eczema: Trying Out the Toolbox TICKETED

Session Details
Friday, February 22, 2019: 12:30 PM-1:30 PM
Moscone Center South, Exhibition Level, Hall D11
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Megan Ott Lewis, MSN CRNP
Karol G. Timmons, RN MS CPNP

Learning Objectives:
1. Participants will be able to provide families with practical, useful advice to care for their child with atopic dermatitis, including topical corticosteroid selection, calcineurin inhibitor use and bleach baths
2. Discuss and provide families with step-by-step information to complete wet wrap therapy
3. Identify strategies to limit corticosteroid exposure to children and adolescents, including resources available
4. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available
5. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available
6. Discuss with families practical, useful advice to care for their child with atopic dermatitis, including topical corticosteroid selection, calcineurin inhibitor use and bleach baths
7. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available
8. Participants will be aware of strategies to limit corticosteroid exposure to children and adolescents, including resources available

12:45 PM-2:00 PM

1510
JACI: In Practice Year-in-Review Workshop
Allergy Office Practice

Session Details
Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Level 3, Room 305
1.25 CME/CE
Workshop
Moderator:
Michael Schatz, MD MS FAAAAI

Learning Objectives:
1. Discuss the findings from recent clinical research in the areas of asthma, food allergy and drug hypersensitivity
2. Identify the strengths, limitations and practical implications of the highlighted studies
3. Discuss how to incorporate the new findings in the management of patients with asthma, food allergy and drug hypersensitivity

12:45 PM
Asthma
Robert S. Zeiger, MD PhD FAAAAI

1:05 PM
Question & Answer

1:10 PM
Food Allergy and Anaphylaxis
Scott H. Sicherer, MD FAAAAI

1:30 PM
Question & Answer

1:35 PM
Allergy and Urticaria/Angioedema
David A. Khan, MD FAAAAI

1:55 PM
Question & Answer

1511
Problem-Based Learning: Severe Atopic Dermatitis TICKETED
Allergic and Immunologic Skin Diseases
Session Details
Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Exhibition Level, Hall D12
1.25 CME/CE
Workshop
Moderator:
Ray S. Davis, MD FAAAAI

Learning Objectives:

1. Discuss the differential diagnosis of a patient with severe atopic dermatitis
2. Identify and assess the food allergy as a co-morbid condition in this patient
3. Discuss the cutting edge literature on the state of the art skin therapy and biologics in refractory atopic dermatitis

12:45 PM Interactive Problem-Based Learning
1:15 PM Pathophysiology and Differential Diagnosis of Severe Atopic Dermatitis
Anna De Benedetto, MD
1:30 PM Intense Skin Care Protocol for Severe Atopic Dermatitis
1:45 PM Question & Answer

1512
How to Use Online Genomics Tools and Datasets in Your Allergy and Immunology Research
Research Principles

Session Details
Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Level 3, Room 301
1.25 CME/CE
Workshop
Moderator:
Melanie A. Ruffner, MD PhD

Learning Objectives:

1. Identify specific online genomic research tools and provide instructions and live demonstrations of how to use them
2. Identify examples of locations of publicly deposited genetic, genomic, proteomic and other data that are associated with published and unpublished studies
3. Discuss statistical considerations and logistics of interpreting and integrating publicly deposited genetic and genomic data

12:45 PM Data Sets Available for Your Clinical Research
Supinda Bunyavanich, MD MPH FAAAAI
1:05 PM Question & Answer
1:10 PM Using Public Data to Find Gene Expression and Modulators of Gene Expression.
Leah Claire Nesbitt Kottyan, PhD
1:30 PM Question & Answer
1:35 PM Integrating Functional Genomic Data Starting with a Genomic Position
Matthew T. Weirauch, PhD
1:55 PM Question & Answer

1513
Clinical Management of Psychosocial Concerns Among Pediatric Patients with Food Allergy and Their Caregivers
Food Allergy

Session Details
Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Level 2, Room 203
1.25 CME/CE
Workshop
Primary Moderators:
Todd David Green, MD FAAAAI

Learning Objectives:

1. Identify common psychosocial concerns related to food allergies
2. Describe psychosocial assessment and intervention methods that can be utilized with patients with food allergies
3. Describe how mental health professionals and allergists can collaborate to address food allergy-related psychosocial concerns

12:45 PM Mental Health Assessment for Patients with Food Allergy and Their Families
Linda Herbert, PhD
1:05 PM Question & Answer
1:10 PM Mental Health Interventions for Patients with Food Allergy and Their Families
Eyal Shemesh, MD
1:30 PM Question & Answer
1:35 PM Collaboration Among Allergists and Mental Health Professionals to Address Mental Health Concerns Among Patients with Food Allergy
Hemant P. Sharma, MD MHS FAAAAI
1:55 PM Question & Answer

1514
Advancing Care for Anaphylaxis and Food Allergy in Schools: Devil in the Details
Food Allergy

Session Details
Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Level 2, Room 205
1.25 CME/CE Workshop

Primary Moderators:

Susan Waserman, MD MSc FAAAAI

To be announced.

Learning Objectives:

1. Discuss the current research on anaphylaxis and food allergy in schools
2. Discuss how research can shape policies involving anaphylaxis and food allergy
3. Identify the role of the allergist in advocating for improved care of students at risk for anaphylaxis and food allergy

12:45 PM Understanding School Management of Anaphylaxis and Food Allergy: What Does Research Show?

Julie Wang, MD FAAAAI

1:05 PM Question & Answer

1:10 PM Using Research to Drive Policy

Carla M. Davis, MD FAAAAI

1:30 PM Question & Answer

1:35 PM Advocating for Improved Care in Schools: The Role of the Allergist

Michael Pistiner, MD MMSc

1:55 PM Question & Answer

What is the Best Treatment Strategy for the Prevention and/or Treatment of Asthma Exacerbations in Children?

Asthma

Session Details

Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155

1.25 CME/CE Workshop

Moderator:

Kirsten M Kloepfer, MD MS

Learning Objectives:

1. Describe common symptoms that precede the development of an asthma exacerbation (“yellow zone”)
2. Discuss the pros and cons of various treatment approaches that have been objectively studied in clinical trials
3. Discuss how recent clinical research findings will influence future treatment recommendations and asthma guidelines

12:45 PM Oral Glucocorticoids in Preschool Children to Treat Asthma Exacerbations (Red Zone)

Anne M. Fitzpatrick, PhD

1:00 PM Question & Answer

1:05 PM Antibiotic Treatment When Children Enter the Yellow Zone

Avraham Beigelman, MD MSCI FAAAAI

1:20 PM Question & Answer

1:25 PM Intermittent Therapy with High Doses of Inhaled Glucocorticoids When Children Enter into the Yellow Zone and are Not Receiving Maintenance Inhaled Glucocorticoids

William J. Sheehan, MD

1:40 PM Question & Answer

1:45 PM Inhaled Glucocorticoid Initiation or Escalation In Children Entering the Yellow Zone

Daniel J. Jackson, MD FAAAAI

2:00 PM Question & Answer

Early Life Environmental Exposures Regulate Host Allergic Immune Responses: Lessons Learned from the AADCRC Birth Cohorts

Immune Mechanisms

Session Details

Friday, February 22, 2019: 12:45 PM-2:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156

1.25 CME/CE Workshop

Moderator:

Alkis Togias, MD FAAAAI

Learning Objectives:

1. Discuss the unpublished data from University of Wisconsin MESA cohort that defines the early life environmental exposures that significantly decreased respiratory infections during the first 2 years of life in farm children compared to non-farm children
2. Define the strains of the ubiquitous respiratory syncytial virus (RSV) that are associated with increased risk of severe infant illness and later wheezing, which we call “asthmagenic” RSV strains
3. Determine the epidemiology between traffic related air pollution and childhood asthma as defined by the Cincinnati Children’s Hospital CCAAPS birth cohort

12:45 PM Effects of the Farming Environment on Immune Development and Childhood Respiratory Illnesses: Lessons from the MESA Study

Christine M. Seroogy, MD FAAAAI

1:05 PM Question & Answer

1:10 PM Identifying Asthma-Causing RSV Strains and Elucidating the Mechanisms of RSV- Mediated Asthma Development: Lessons Learned from the Inspire Cohort

Tina V. Hartert, MD MPH
### 1517 Regulatory RNA in Allergic Diseases

**Session Details**
- **Friday, February 22, 2019: 12:45 PM-2:00 PM**
- **Moscone Center South, Level 2, Room 201**
- **1.25 CME/CE**
- **Workshop**
- **Moderator:**
  - David D. Chaplin, MD PhD FAAAAI

**Learning Objectives:**
1. Discuss regulatory RNA in allergic diseases

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<td>12:45 PM</td>
<td>Regulation of Type-2 Immunity By Long Non-Coding RNAs</td>
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<td>1:05 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>1:10 PM</td>
<td>MicroRNA Regulation of Lymphocytes in Allergic Diseases</td>
<td>Madeleine Radinger, PhD</td>
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<td>1:30 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>1:35 PM</td>
<td>MicroRNAs As Biomarkers in Allergic Diseases</td>
<td>Tania Maes</td>
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### 1601 Optimal Care of the Food Allergic Patient

**Session Details**
- **Friday, February 22, 2019: 2:15 PM-4:15 PM**
- **Moscone Center South, Exhibition Level, Hall A**
- **1.50 CME/CE**
- **Moderator:**
  - Robert A. Wood, MD FAAAAI

**Learning Objectives:**
1. Discuss the complexity of food allergy diagnosis
2. Outline the potential risks and benefits of food allergy treatments
3. Recognize the potential for new treatment strategies in the future

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<th>Time</th>
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<tr>
<td>2:15 PM</td>
<td>Introduction</td>
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<tr>
<td>2:20 PM</td>
<td>Optimal Diagnostic and Testing Strategies to Confirm Food Allergies</td>
<td>Robert A. Wood, MD FAAAAI</td>
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<tr>
<td>2:45 PM</td>
<td>Introduction</td>
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<tr>
<td>2:50 PM</td>
<td>Optimal Use of Emerging Treatments for Food Allergy</td>
<td>A. Wesley Burks, MD FAAAAI</td>
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<tr>
<td>3:15 PM</td>
<td>Introduction</td>
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<tr>
<td>3:20 PM</td>
<td>Novel Therapies in Development</td>
<td>Cecilia Berin, PhD</td>
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<tr>
<td>3:45 PM</td>
<td>Question &amp; Answer</td>
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### 1801 Gene Therapy, Gene Silencing and Gene Editing for the Clinical Allergist/Immunologist

**Session Details**
- **Friday, February 22, 2019: 4:15 PM-5:30 PM**
- **Moscone Center South, Level 2, Room 205**
- **1.25 CME/CE**
- **Symposium**
- **Moderator:**
  - Neil D. Romberg, MD

**Learning Objectives:**
1. Discuss the specific applications in or near clinical applications including the correction of hereditary and acquired immune deficiency, asthma and allergy
2. Discuss the ethical concerns regarding modification of the genome and somatic cells

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<th>Time</th>
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<tbody>
<tr>
<td>4:15 PM</td>
<td>Clinical Trials of Gene Silencing with Anti-Sense Dnzymes for Asthma</td>
<td>Harald E. Renz, MD FAAAAI</td>
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<tr>
<td>4:35 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>4:40 PM</td>
<td>Gene Therapy Technology in Clinical Trials for Hereditary and Acquired Immune Deficiency</td>
<td>Jolan E. Walter, MD</td>
</tr>
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</table>
1802 Environment and Allergic Disease: A Global Phenomenon with Particular Consequences for At Risk Populations

**Allergic and Immunologic Skin Diseases**

**Session Details**

Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE

**Symposium**

**Moderator:**

Anil Nanda, MD FAAAAI

**Learning Objectives:**

1. Compare the scientific literature on the association between environment and asthma in the inner city in both United States and worldwide
2. Compare environmental controls in the treatment of allergic diseases in pediatric, adult, and older adult populations
3. Examine the interaction between climate and allergic diseases, including asthma, on a worldwide basis, with specific consequences for pediatric, adult, and older adult populations

**4:15 PM**

The Association Between Environment and Asthma in the Inner City in Both the United States and Worldwide

William J. Sheehan, MD

**4:35 PM**

Question & Answer

**4:40 PM**

Environmental Controls in the Treatment of Allergic Diseases in Pediatric, Adult and Older Adult Populations

Elizabeth C. Matsui, MD MHS

**5:00 PM**

Question & Answer

**5:05 PM**

The Interaction Between Climate and Allergic Diseases, Including Asthma, on a Worldwide Basis, with Specific Consequences for Pediatric, Adult and Older Adult Populations

Jill A. Poole, MD FAAAAI

**5:25 PM**

Question & Answer

1803 Generation of Antigen-Specific IgE: A Revolution in Novel Therapies for Allergic Diseases

**Allergens/Allergy Testing/Allergy Therapeutics**

**Session Details**

Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Level 2, Room 203
1.25 CME/CE

**Symposium**

**Moderator:**

Rob C. Aalberse, PhD

**Learning Objectives:**

1. Define the methodology and utility of creating hybridomas from naturally occurring human antigen-specific IgE
2. Define the methodology and utility of isotype-switched recombinant antigen-specific IgE
3. Define the molecular profiling of human serum allergen-specific IgE

**4:15 PM**

Development of Isotype Switched Recombinant Peanut-Specific IgE

Scott A. Smith, MD PhD

**4:35 PM**

Question & Answer

**4:40 PM**

Molecular Characterization of Naturally-Ocurring Human Antigen-Specific IgE

**5:00 PM**

Question & Answer

**5:05 PM**

Molecular Profiling of Human Serum Allergen-Specific IgE

**5:25 PM**

Question & Answer

1804 An Update on the Efficacy and Safety of Subcutaneous (SCIT) and Sublingual (SLIT) Immunotherapy

**Allergens/Allergy Testing/Allergy Therapeutics**

**Session Details**

Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Level 3, Room 305
1.25 CME/CE

**Symposium**

**Moderator:**

Peter S. Creticos, MD FAAAAI

**Learning Objectives:**

1. Describe the clinical efficacy of subcutaneous and sublingual allergen immunotherapy in treating rhinitis and asthma
2. Identify new clinical advocacy and immunologic findings
3. Identify available data regarding clinical outcomes and adherence patterns to develop evidence-based prescribing patterns and safety protocols

**4:15 PM**

An Update on the Efficacy of Subcutaneous and Sublingual Allergen Immunotherapy

Linda s Cox, MD FAAAAI

**4:35 PM**

Question & Answer

**4:40 PM**

Immune Alteration and Clinical Response with SLIT and SCIT

Stephen R. Durham, MD MA
Environmental Yeasts: An Overlooked Exposure and Potential Aeroallergen Source in the United States

**Symposium**

**Moderator:** W. Elliott Horner, PhD LEED AP FAAAAI

**Learning Objectives:**

1. Discuss the biology and structure of environmentally sourced yeast species
2. Describe the yeast species that have been identified in culture independent studies evaluating indoor, outdoor and occupational air and dust samples
3. Discuss the hypersensitivity reactions, characterized allergens, and epidemiological associations between yeast exposure and respiratory morbidity

**Session Details**

Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.25 CME/CE

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<tr>
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<th>Session Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>4:15 PM</td>
<td>The Biology and Structure of Environmentally Sourced Yeast Species</td>
<td>Estelle Levetin, PhD FAAAAI</td>
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<td>4:35 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>4:40 PM</td>
<td>What Have Culture Independent Studies Revealed About the Diversity of Yeast Species Within U.S. Indoor, Outdoor and Occupational Environments?</td>
<td>Brett J. Green, PhD FAAAAI</td>
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<td>5:00 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>5:05 PM</td>
<td>Health Hazards of Yeast Exposure: What Have We Learned from Epidemiological and Clinical Studies?</td>
<td>Karen C. Dannemiller, PhD</td>
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Food Allergy Prevention: To Screen or Not to Screen, That is the Question

**Symposium**

**Moderator:** Jonathan M. Spergel, MD PhD FAAAAI

**Learning Objectives:**

1. Discuss the published data on cost effectiveness of peanut and egg screening (recent publications in 2018)
2. Discuss the clinical and safety experience with universal implementation without prior screening
3. Discuss the different definitions of “high risk” used over the past few years and provide some basis for the relative risk of “high risk” definitions used

**Session Details**

Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Exhibition Level, Hall A
1.25 CME/CE

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<th>Time</th>
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<tr>
<td>4:15 PM</td>
<td>Who is Really High Risk for the Development of Food Allergy?</td>
<td>Elissa Michele Abrams, MD FRCPGC</td>
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<td>Question &amp; Answer</td>
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<tr>
<td>4:40 PM</td>
<td>Implementation of the US Peanut Allergy Prevention Guidelines By Allergists and Pediatricians</td>
<td>Corinne Keet, MD MS PhD</td>
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<td>5:00 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>5:05 PM</td>
<td>Is Screening for Food Allergy Cost-Effective?</td>
<td>Marcus S. Shaker, MD MS FAAAAI</td>
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The New International Urticaria Guidelines: Are They of Practical Use to the Clinical Allergist?

**Symposium**

**Moderator:** Sarbjit S. Saini, MD FAAAAI

**Learning Objectives:**

1. Discuss the consensus statements of the International urticaria guideline
2. Discuss the similarities and differences between the international urticaria guideline and the JTF urticaria guidelines
3. Discuss the appropriate scientific evidence based evaluation and treatment of a patient presenting with chronic urticaria

**Session Details**

Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Level 2, Room 207
1.25 CME/CE

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<th>Time</th>
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<td>4:35 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>4:40 PM</td>
<td>Similarities and Differences Between the International Urticaria Guidelines and the JTF Guidelines</td>
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Allied Health Plenary: Food Allergy Update

Session Details
Friday, February 22, 2019: 4:15 PM-5:30 PM
Moscone Center South, Exhibition Level, Hall D8
1.25 CME/CE
Plenary
Moderator:
Karen L. Gregory, DNP APRN-BC RRT AE-C

Learning Objectives:
1. Describe the diagnostic testing for food allergy
2. Discuss therapies under investigation for food allergy
3. Discuss the understanding of the psycho-social needs of food allergy families

Food Allergy Diagnosis and Management
Julie Wang, MD FAAAAI

4:15 PM Question & Answer

Food Allergy Research: OIT, EPIT, SLIT and Early Introduction
Kim E. Mudd, RN MSN

4:35 PM Question & Answer

Psychosocial Concerns in Food Allergy Families
Linda Herbert, PhD

5:05 PM Question & Answer
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<th>Time</th>
<th>Session Details</th>
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<tr>
<td>7:00 AM-8:00 AM</td>
<td><strong>Aspirin and NSAID Challenges in the Office</strong> TICKETED</td>
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<td><strong>Inflammation in Eosinophilic Esophagitis: Beyond Eosinophilis</strong> TICKETED</td>
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<td><strong>E-Cigarettes: The Arc of the Evidence: Smoking Cessation to Harm Reduction to Harm Production</strong> TICKETED</td>
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<td><strong>Skin Testing to Drugs in the Outpatient Clinic</strong> TICKETED</td>
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<td><strong>How to Best Use Component Testing For Food Allergy in Clinical Practice</strong></td>
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**2001 Aspirin and NSAID Challenges in the Office** TICKETED

**Session Details**
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 1
1.00 CME/CE
Seminar
Primary Discussion Leaders:
James L. Baldwin, MD FAAAAI
Whitney W. Stevens, MD PhD

**Learning Objectives:**
1. Discuss different approaches and schedules to aspirin challenge and desensitization
2. Describe complications and how to treat them in an aspirin challenge in an office setting

**2002 Inflammation in Eosinophilic Esophagitis: Beyond Eosinophilis** TICKETED

**Session Details**
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 2
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Antonella Cianferoni, MD PhD FAAAAI
Seema S. Aceves, MD, PhD

**Learning Objectives:**
1. Discuss the role of epithelial cells in EoE
2. Discuss the role of mast cells in EoE
3. Discuss the role of lymphocytes in EoE

**2003 E-Cigarettes: The Arc of the Evidence: Smoking Cessation to Harm Reduction to Harm Production** TICKETED

**Session Details**
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 3
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Neil Alexis, PhD
Andrew S. Nickels, MD

**Learning Objectives:**
1. Discuss where the balance of the debate currently sits and where the needle is pointing in terms of the "harm reduction vs harm production debate"

**2004 Skin Testing to Drugs in the Outpatient Clinic** TICKETED

**Session Details**
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 4
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Roland Solensky, MD FAAAAI
Paige G. Wickner, MD MPH

**Learning Objectives:**
1. Discuss how to perform skin testing to drugs in the outpatient clinic safely
2. Discuss how to review non-irritating skin test concentrations of various drugs

**2005 How to Best Use Component Testing For Food Allergy in Clinical Practice** TICKETED

**Session Details**
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 5
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Jacob Daniel Kattan, MD
Motohiro Ebisawa, MD PhD FAAAAI
Learning Objectives:
1. Identify patients who would benefit from component testing for food allergy more effectively
2. Explain to patients which component proteins indicate a high likelihood of clinical reactivity, and which may indicate a false positive result
3. Utilize component test results to identify good candidates for physician supervised oral food challenges more effectively

**2006 Evaluation and Treatment of Angioedema: An Approach to Difficult Cases**

**Primary Discussion Leaders:**
- Aleena Banerji, MD
- Paula J. Busse, MD FAAAAI

**Learning Objectives:**
1. Discuss the differential diagnosis of angioedema
2. Discuss the mechanism of angioedema
3. Discuss treatment of angioedema based on mechanism

**Session Details**
- Saturday, February 23, 2019: 7:00 AM-8:00 AM
- Marriott, Lower B2 Level, Yerba Buena Salon 6
- 1.00 CME/CE
- Seminar

**2007 New Solutions for Old Problems: Can Technology Improve Medication Adherence?**

**Primary Discussion Leaders:**
- William C. Anderson III, MD FAAAAI
- Giselle Mosnaim

**Learning Objectives:**
1. Discuss the current state of adherence assessment in clinical practice and the impact of poor adherence on clinical outcomes
2. Discuss the ability of electronic medication monitoring to change adherence patterns in patients as well as impact clinical outcomes
3. Identify potential barriers that may be a hindrance to the implementation of electronic medication monitoring in practice

**Session Details**
- Saturday, February 23, 2019: 7:00 AM-8:00 AM
- Marriott, Lower B2 Level, Yerba Buena Salon 10
- 1.00 CME/CE
- Seminar

**2008 Asthma and Allergy Health Disparities Throughout the Lifespan**

**Primary Discussion Leaders:**
- Alan P. Baptist, MD MPH FAAAAI
- Carla M. Davis, MD FAAAAI

**Learning Objectives:**
1. Discuss the epidemiology of asthma and allergy health disparities in three specific age groups (infants/young children, adolescents/young adults, and older adults)
2. Identify unique contributing factors for asthma and allergy health disparities in each of the age groups
3. Discuss the specific strategies to overcome health disparities throughout the lifespan

**Session Details**
- Saturday, February 23, 2019: 7:00 AM-8:00 AM
- Marriott, Lower B2 Level, Yerba Buena Salon 11
- 1.00 CME/CE
- Seminar

**2009 How to Apply Component Based Testing in Your Practice: A Case-Based Presentation**

**Primary Discussion Leaders:**
- Anne Marie Singh, MD
- Joerg R. Kleine-Tebbe, MD FAAAAI

**Learning Objectives:**
1. Discuss the benefits and what we know about component testing for food, venom and inhalant allergy
2. Discuss the limitations of what we do not know yet about component testing for food, venom and inhalant allergy
3. Discuss the practical aspects of component testing, including how to order, what labs perform the testing, and what are FDA approved and what are not FDA approved

**Session Details**
- Saturday, February 23, 2019: 7:00 AM-8:00 AM
- Marriott, Lower B2 Level, Yerba Buena Salon 12
- 1.00 CME/CE
- Seminar

**2010 Overcoming Barriers to Change: Relationship Centered Communication Skills to Help with Asthma Control**

**Primary Discussion Leaders:**
- Brian C. Schroer, MD
- Jaclyn Bjelac, MD
Learning Objectives:
1. Discuss and apply specific relationship-centered communication skills to approach barriers to change

Mast Cell and Eosinophilic Disease: The Value of a Hematology Consult TICKETED

Session Details
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 14
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Melody C. Carter, MD FAAAAI
Dean D. Metcalfe, MD FAAAAI

Learning Objectives:
1. Review the diagnostic workup in patients with suspected mast cell or eosinophilic disorders
2. Discuss the criteria for bone marrow biopsy in patients with mast cell and eosinophilic disorders and when to refer to a hematologist

Allied Health: Chronic Rhinosinusitis: Beyond the Basics TICKETED

Session Details
Saturday, February 23, 2019: 7:00 AM-8:00 AM
Moscone Center South, Exhibition Level, Hall D11
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Mahboobeh Mahdavinia, MD PhD
Joseph K. Han, MD FAAAAI

Learning Objectives:
1. Discuss different clinical and exam features of Chronic Rhinosinusitis (CRS) compared to chronic rhinitis
2. Discuss which tests are appropriate to order in a patient with CRS and when they should be considered
3. Describe treatment modalities for CRS including the idea of “maximal medical therapy” and when to refer for an otolaryngology opinion

Outcomes, Education and Healthcare Delivery in Allergic Diseases

Session Details
Saturday, February 23, 2019: 8:15 AM-10:15 AM
Moscone Center South, Exhibition Level, Hall A
1.50 CME/CE
Moderator:
Asriani M. Chiu, MD FAAAAI

Learning Objectives:
1. Discuss and define patient-centered outcomes for allergic diseases
2. Discuss how to teach providers, patients and families about allergic diseases
3. Describe the principles of shared decision making to patients and families with allergic diseases

Asthma Care in the Era of Precision Medicine

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 207
1.25 CME/CE
Symposium
Moderator:
Leonard B. Bacharier, MD FAAAAI

Learning Objectives:
1. Discuss a variety of established and emerging biomarkers in the identification of asthma phenotypes
2. Identify asthma endotypes and phenotypes in adults and children with asthma
3. Describe the implications of personalized asthma care among individual patients

Available and Emerging Biomarkers As Tools to Identify Asthma Phenotypes
Matthew C Atman, MD, MPH
11:05 AM Question & Answer

11:10 AM Asthma Phenotypes and Endotypes: Insights into Disease Causation and Mechanisms
Sally E. Wenzel, MD FAAAAI

11:30 AM Question & Answer

11:35 AM Personalized Medicine at the Patient and Population Levels
Stanley J. Szefler, MD FAAAAI

11:55 AM Question & Answer

2302 Primary Immunodeficiency Disease Outcomes: Are They Improving?

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE

Moderator:
Elena E. Perez, MD PhD FAAAAI

Learning Objectives:
1. Discuss outcomes using modern therapeutic approaches and current challenges to further optimization of care for patients with widely-recognized primary immunodeficiency diseases
2. Recognize quality of life issues that continue to require advancement and attention in patients with primary immunodeficiency diseases
3. Examine how best practice measures are impacting utilization of healthcare resources

10:45 AM Classic Diseases: SCID, CVID, CGD, XLA and X-HiGM
Kathleen E. Sullivan, MD PhD FAAAAI

11:05 AM Question & Answer

11:10 AM Quality of Life

11:30 AM Question & Answer

11:35 AM Healthcare Utilization
Mark Ballow, MD FAAAAI

11:55 AM Question & Answer

2303 Growing Your Practice While Earning MOC Credit with the AAAAI Clinical Rotation Curriculum

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 3, Room 303
1.25 CME/CE

Moderator:
Gerald B. Lee, MD

Learning Objectives:
1. Discuss how to start an allergy/immunology elective in their clinic
2. Discuss how to assess the competence of learners and give meaningful feedback
3. Describe how to register with the ABAI to earn part IV MOC credit for medical education

10:45 AM How to Run an Allergy Elective in a Busy Allergy/Immunology Practice
Jeffrey G. Demain, MD FAAAAI

11:05 AM Question & Answer

11:10 AM Tips and Tricks on Teaching a New Generation of Learner

11:30 AM Question & Answer

11:35 AM How to Earn ABAI Part IV MOC Credit Through Medical Education
Luz S. Fonacier, MD FAAAAI

11:55 AM Question & Answer

2304 Does CRS Without NP Need a Different Approach?

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.25 CME/CE

Moderator:
Patricia Takach, MD FAAAAI

Learning Objectives:
1. Describe the pathobiology of CRS without NP and describe the pathobiology of CRS without NP
2. Identify the unique clinical presentation of CRS without NP
3. Describe the therapeutic approaches to CRS without NP and describe the therapeutic approaches to CRS without NP

10:45 AM Pathogenesis of CRS without NP: Neutrophilic Vs. Eosinophilic?
Mahboobeh Mahdavinia, MD PhD

11:05 AM Question & Answer
Are Clinical Presentations of CRS without NP Different from CRS with NP?
Seong Ho Cho, MD FAAAAI

Is the Medical or Surgical Management of CRS without NP Different from CRS with NP?
Martin Wagenmann, MD FAAAAI

World Allergy Forum: New Advances in Allergen Immunotherapy

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 3, Room 305
1.25 CME/CE

Symposium
Primary Moderators:
Ignacio J. Ansotegui, MD PhD
Robert A. Wood, MD FAAAAI

Learning Objectives:
1. Discuss all allergen immunotherapy mechanisms
2. Identify different approaches of allergen immunotherapy for asthma
3. Define the mechanisms and systems for food immunotherapy

Current Knowledge of Allergen Immunotherapy Mechanisms
Mubeccel Akdis, MD PhD

Current Evidence of Allergen Immunotherapy in Asthma
Maria Victoria Cardona, MD, PhD

Food Immunotherapy
Motohiro Ebisawa, MD PhD FAAAAI

Innate Immunity in Allergic Responses

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 201
1.25 CME/CE

Symposium
Moderator:
Christina L. Nance, PhD MA FAAAAI

Learning Objectives:
1. Describe most current scientific information relating to innate immunity in allergy
2. Describe this information to better interrupt and understand new findings in the field of allergy

Type 2 Innate Lymphoid Cells in Allergic Inflammation
Donata Vercelli, MD

Dendritic Cell Regulation in Allergic Responses
Michelle A. Gill, MD PhD

Dendritic Cell Regulation of Type 2 Innate Lymphoid Cells in Allergic Inflammation
Speaker to be announced.

Stories from the AAAAI Foundation

Session Details
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 203
1.25 CME/CE

Symposium
Moderator:
William W. Busse

Learning Objectives:
1. Describe the immune mechanisms regulating food allergy pathogenesis
2. Discuss the mechanisms of esophageal remodeling in eosinophilic esophagitis
3. Discuss the role of IgE receptor signaling in food allergy pathogenesis

Esophageal Remodeling in Eosinophilic Esophagitis
Seema S. Aceves, MD, PhD

Dendritic Cell Regulation of Type 2 Innate Lymphoid Cells in Allergic Inflammation
Speaker to be announced.
2308  
**The Microbiome in Food Allergy**

*Session Details*
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 205
1.25 CME/CE

*Symposium*

**Moderator:**
Diane R. Gold, MD, MPH

*Learning Objectives:*
1. Discuss what human cohort studies have taught us about the role of the microbiome in food allergy
2. Discuss what murine models have taught us about the role of the microbiome in food allergy
3. Discuss the role of metabolites produced by gut microbiota in allergy pathogenesis

**Schedule:**
- **10:45 AM**
  The Microbiome and Food Allergy: Lessons Learned from Human Cohort Studies
  Supinda Bunyavanich, MD MPH FAAAAI
- **11:05 AM**
  Question & Answer
- **11:10 AM**
  The Microbiome and Food Allergy: Lessons Learned from Murine Models
  Talal A. Chatila, MD MSc
- **11:30 AM**
  Question & Answer
- **11:35 AM**
  Microbially-Derived Metabolites and Their Role in Food Allergy
- **11:55 AM**
  Question & Answer

2309  
**Implementation of Food Immunotherapy into Clinical Practice**

*Session Details*
Saturday, February 23, 2019: 10:45 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall A
1.25 CME/CE

*Symposium*

**Moderator:**
Stacie M. Jones, MD

*Learning Objectives:*
1. Discuss the various risks/benefits and advantages/disadvantages amongst the various immunotherapies currently under investigation (SCIT, SLIT, OIT, EPIT)
2. Discuss how providers, parents and patients should best decide which therapy may be best for them, or whether ongoing avoidance may be more practical
3. Discuss how to prepare providers and nurses for the use of food immunotherapy

**Schedule:**
- **10:45 AM**
  What Are Risks and Benefits, Advantages and Disadvantages of Each Food Immunotherapy?
  David M. Fleischer, MD FAAAAI
- **11:05 AM**
  Question & Answer
- **11:10 AM**
  Decision Making: Which Patients for Which Therapy?
  Matthew J. Greenhawt, MD MBA MSc
- **11:30 AM**
  Question & Answer
- **11:35 AM**
  Practical Implementation of Food It into Your Clinical Practice
  Hugh H. Windom, MD FAAAAI
- **11:55 AM**
  Question & Answer

12:00 PM-1:45 PM

**Careers Paths in Allergy and Immunology**

*TICKETED*

*Session Details*
Saturday, February 23, 2019: 12:00 PM-1:45 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 160
0.00 CME/CE

*Course*

**Moderator:**

*Learning Objectives:*
1. Compare and contrast those career paths to allow the attendee to identify key components in those paths that fit with their future career plans and goals
2. Discuss the different career paths available in the field of Allergy and Immunology
3. Enhance engagement of the attendees with the speakers during the break-out Q&A portion of the session

**Schedule:**
- **12:00 PM**
  Lunch
- **12:15 PM**
  Welcome and Introduction
<table>
<thead>
<tr>
<th>Time</th>
<th>Breakout Question &amp; Answer</th>
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</thead>
<tbody>
<tr>
<td>12:20 PM</td>
<td>Academia Clinical</td>
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<tr>
<td></td>
<td>Kimberly A. Risma, MD, PhD, FAAAAI</td>
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<tr>
<td>12:20 PM</td>
<td>Academia Research</td>
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<tr>
<td></td>
<td>Amy M. Scurlock, MD</td>
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<tr>
<td>12:30 PM</td>
<td>Industry</td>
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<td>Mitchell H. Grayson, MD FAAAAI</td>
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<td>12:40 PM</td>
<td>Government</td>
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<tr>
<td></td>
<td>Dorothy S. Cheung, MD FAAAAI</td>
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<tr>
<td>12:50 PM</td>
<td>Private Practice</td>
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<td>Melody C. Carter, MD FAAAAI</td>
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<td>1:00 PM</td>
<td>Summary</td>
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<td>Andrew W. Murphy, MD FAAAAI</td>
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### Practical Approaches to Adjunctive Management of Primary Immunodeficiency Diseases

**Immunodeficiency**

**Session Details**
- **Saturday, February 23, 2019: 12:00 PM-2:00 PM**
- **Moscone Center South, Exhibition Level, Hall D3**
- **0.25 CME/CE**
- **Workshop**

**Learning Objectives:**
1. Apply evidence-based information on the initiation and maintenance use of IgG replacement, both in the IV and SC formulations. Apply evidence-based observations to practice concerning use of antimicrobial therapies and probiotics in patients with primary immunodeficiency diseases.
2. Discuss best practices for patients receiving SC IgG replacement therapy including a review of the different products, dosing of the medication, best anatomical locations for the infusions, and ways to decrease discomfort during the infusion. Understand current recommendations for use of vaccines in primary immunodeficiency disease patients and their close contacts.
3. List the appropriate laboratory testing required in patients who are on IgG replacement therapy. Comfortably initiate and manage the use of biologic medications in patients with primary immunodeficiency diseases.

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<thead>
<tr>
<th>Time</th>
<th>Hands-on Training Station</th>
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<tbody>
<tr>
<td>12:00 PM</td>
<td>Elena E. Perez, MD PhD FAAAAI</td>
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<tr>
<td></td>
<td>Mark Ballow, MD FAAAAI</td>
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<td></td>
<td>Benjamin T Prince, MD, MSCi</td>
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<td></td>
<td>Maria A. Slack, MD</td>
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<td></td>
<td>Debra A. Sediak, MSN CPNP</td>
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<td>William R. Blouin, ARNP</td>
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<td>Kenneth Paris, MD MPH</td>
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<td>Charlotte Cunningham-Rundles, MD PhD FAAAAI</td>
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<td>Francisco A. Bonilla, MD PhD FAAAAI</td>
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</tbody>
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### Oral Food Challenges I

**Food Allergy**

**Session Details**
- **Saturday, February 23, 2019: 12:00 PM-2:00 PM**
- **Moscone Center South, Exhibition Level, Hall D3**
- **0.25 CME/CE**
- **Workshop**

**Learning Objectives:**
1. Demonstrate techniques for preparing foods for oral food challenges in the office setting.
2. Demonstrate techniques for administering oral food challenges in the office setting.
3. Discuss practical aspects of safely preparing and administering foods for oral food challenges in different age groups.

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<th>Time</th>
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<tr>
<td>12:00 PM</td>
<td>J. Andrew Bird, MD FAAAAI</td>
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<td>Speaker to be announced.</td>
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</table>
2501 There’s an App for That: The Use of Mobile Technology in Clinical Practice TICKETED

Allergy Office Practice

**Session Details**
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 1
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Melinda M. Rathkopf, MD FAAAAI
Nabeel Farooqui, MD FAAAAI

**Learning Objectives:**
1. Discuss novel applications of the iPhone/iPad, Android and other smart devices in daily practice
2. Provide hands on demonstrations of how to navigate the AAAAI annual meeting app, evaluations and access handouts
3. Discuss how to use mobile technology to enhance patient engagement

2502 Venom Allergy: When to Suspect Mastocytosis TICKETED

Mast Cell/Eosinophilic Disorders

**Session Details**
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 2
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
David B.K. Golden, MD FAAAAI
Cem Akin, MD PhD FAAAAI

**Learning Objectives:**
1. Describe patients with high risk of having mastocytosis presenting with venom allergy
2. Describe the efficacy and treatment options of venom immunotherapy in patients with mastocytosis

2503 Asthma in Preschool Children: Primary and Secondary Prevention and Management of Exacerbations TICKETED

Asthma

**Session Details**
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 3
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Avraham Beigelman, MD MSCI FAAAAI
William J. Sheehan, MD

**Learning Objectives:**
1. Describe potential approaches for primary prevention of preschool asthma/episodic wheeze
2. Discuss common asthma phenotypes among preschool children, and how asthma therapies could be tailored based on these phenotypes
3. Describe the management of acute exacerbations

2504 Hypereosinophilic Syndrome: Evaluation and Management Options TICKETED

Mast Cell/Eosinophilic Disorders

**Session Details**
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 4
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Sameer K. Mathur, MD PhD FAAAAI
Amy D. Kilian, MD

**Learning Objectives:**
1. Describe differential diagnosis of eosinophilia and criteria for hypereosinophilia
2. Discuss clinical presentation of hypereosinophilic syndrome
3. Discuss treatment options for hypereosinophilic syndrome

2505  **Case-Based Learning: Challenges in FPIES Management**  TICKETED
**Food Allergy**

*Session Details*
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 5
1.00 CME/CE
Seminar

*Primary Discussion Leaders:*
- Qian Yuan, MD PhD
- Elizabeth J. Feuille, MD

*Learning Objectives:*
1. Describe manifestations of acute, chronic and atypical FPIES
2. Identify approaches to solid food introduction in infants with multiple food FPIES
3. Describe oral food challenge procedure for FPIES

2506  **Cannabis Sativa: Marijuana as Medicine and Allergen?**  TICKETED
**Allergens/Allergy Testing/Allergy Therapeutics**

*Session Details*
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 6
1.00 CME/CE
Seminar

*Primary Discussion Leaders:*
- Ajay P. Nayak, PhD
- To be announced.

*Learning Objectives:*
1. Increase knowledge of cannabis as medicine
2. Examine evidence for allergic reactions

2507  **Biologic Therapies and Occupational Asthma**  TICKETED
**Asthma**

*Session Details*
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 10
1.00 CME/CE
Seminar

*Primary Discussion Leaders:*
- Santiago Quirce, MD PhD
- To be announced.

*Learning Objectives:*
1. Discuss possible advantages and disadvantages of biological treatments for asthma in patients with occupational asthma

2508  **The Mechanic’s Guide to Nanoparticles in the Airways**  TICKETED
**Lung Diseases other than Asthma**

*Session Details*
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 11
1.00 CME/CE
Seminar

*Primary Discussion Leaders:*
- Peter J. Pityn, PhD
- To be announced.

*Learning Objectives:*
1. Describe how to differentiate between nano-sized particles (ultra-fine particles) and nanoparticles
2. Discuss the deposition of inhaled nanoparticles in the lung and their clearance from the airways
3. Describe the limited understanding of nanoparticle toxicology

2509  **Adult Primary Immunodeficiencies**  TICKETED
**Immunodeficiency**

*Session Details*
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 12
1.00 CME/CE
Seminar

*Primary Discussion Leaders:*
- Jolan E. Walter, MD
- Manish J. Butte, MD PhD

*Learning Objectives:*
1. Discuss the immunological landscape of common PID in adults and how to approach diagnosis
2. Discuss when to consider genetic testing for PID in an adult
3. Discuss treatment options from IgRT to immune modulation

2510  **Demystifying the NIH Grant Submission/Peer Review Process**
Research Principles

Session Details
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 151
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Alok Mulky, Ph.D.
David P. Huston, MD FAAAAI

Learning Objectives:
1. Define the Peer Review processes by which the NIH Center for Scientific Review manages the review of research grant applications
2. Specify approaches to enhance the likelihood that a grant application will be favorably reviewed and recommended for funding
3. Define fundamental features of study sections, including information about the HAMH recurrent Special Emphasis Panel (SEP)

Antibiotics are Effective Therapy for the Management of Acute Episodic Wheeze in Preschool Children

Session Details
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Level 2, Room 207
1.00 CME/CE
Pro/Con Debate
Moderator:
Stokes Peebles Jr., MD FAAAAI

Primary Pro Speaker:
Leonard B. Bacharier, MD FAAAAI

Primary Con Speaker:
Jay M. Portnoy, MD FAAAAI

Learning Objectives:
1. Define the effectiveness of antibiotic therapy for management of acute episodic wheeze in preschool children
2. Define the potential adverse effects of antibiotic therapy for management of acute episodic wheeze in preschool children
3. Define the public health, including cost, ramifications of antibiotic therapy for management of acute episodic wheeze in preschool children

Mast Cell Activation Syndrome is Over-Recognized

Session Details
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.00 CME/CE
Pro/Con Debate
Moderator:
Mariana C. Castells, MD PhD

Primary Pro Speaker:
Catherine Randa Weiler, MD PhD FAAAAI

Primary Con Speaker:
Patrizia Bonadonna, MD

Learning Objectives:
1. Define Mast Cell Activation Syndrome
2. Review associated symptoms
3. Identify appropriate therapies

IL-33, and Not TSLP, Is the Primary Driver of the Innate Allergic Immune Response

Session Details
Saturday, February 23, 2019: 12:30 PM-1:30 PM
Moscone Center South, Level 3, Room 303
1.00 CME/CE
Pro/Con Debate
Moderator:
Taylor A Doherty

Primary Pro Speaker:
Hirohito Kita, MD

Primary Con Speaker:
Atsushi Kato, PhD

Learning Objectives:
1. Define the role of a IL-33 and activating the innate allergic immune response
2. Determine the importance of TSLP in stimulating and innate immunity to aeroallergens
3. Define strategies to inhibit the innate allergic airway response for therapeutic purposes

NHLBI: Precision Medicine in Asthma

Session Details
Saturday, February 23, 2019: 12:30 PM-1:45 PM
Moscone Center South, Level 3, Room 305
1.25 CME/CE

**Symposium**

**Moderator:**
To be announced.

**Learning Objectives:**

1. Discuss the design and implementation of adaptive, precision clinical trial protocols in targeted asthma phenotypes
2. Differentiate the roles of predictive and monitoring biomarkers in adaptive clinical trial designs

**Program:**

12:30 PM  
**Precision Medicine in Asthma Therapy and the Precise Network**  
Rosalind J. Wright, MD MPH  
*Question & Answer*

12:50 PM  
**Statistical Considerations for Precision Adaptive Trials in Asthma**  
Lisa LaVange, PhD  
*Question & Answer*

12:55 PM  
**Protocol Design and Implementation in the Precise Network**  
Loren Denlinger, MD PhD  
*Question & Answer*

1:15 PM  
**NIAID: Allergic Sensitization and the March to Allergic Diseases**  
Immune Mechanisms

**Session Details**

Saturday, February 23, 2019: 12:30 PM-1:45 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE

**Symposium**

**Moderator:**
Peter J. Gergen, MD MPH

**Learning Objectives:**

1. Discuss the role of the development of allergen sensitization at various stages of childhood as a risk factor for subsequent development of allergic diseases and their phenotypic expression
2. Discuss how sensitization to specific allergen components may correlate to the phenotype of allergic disease

12:30 PM  
**Phenotypes of Specific Allergic Sensitization: Do They Matter?**  
Christine Cole Johnson, PhD MPH FAAAAI  
*Question & Answer*

12:50 PM  
**Allergic Sensitization and the Development of Allergic Disease in the First 10 Years of Life**  
James E. Gern, MD FAAAAI  
*Question & Answer*

12:55 PM  
**Sensitization to Allergen Components and Its Relationship to the Phenotype of Allergic Disease**  
Anna Pomés, PhD FAAAAI  
*Question & Answer*

2:00 PM-3:15 PM  
**Allied Health: Recurrent Infections, Severe Eczema, or Failure to Thrive: Is it Allergy or Immunodeficiency?**  
Immunodeficiency

**Session Details**

Saturday, February 23, 2019: 2:00 PM-3:15 PM
Moscone Center South, Exhibition Level, Hall D9
1.25 CME/CE

**Workshop**

**Moderator:**
Debra A. Sedlak, MSN CPNP

**Learning Objectives:**

1. Discuss how to assess and manage a patient presenting with an immune dysfunction

2:00 PM  
**Is it Allergy?**  
William R. Blouin, ARNP

2:20 PM  
**Question & Answer**

2:25 PM  
**Is it Immunodeficiency?**

2:45 PM  
**Question & Answer**
Allied Health: Update on Allergen Extract Compounding: Immunotherapy Survey Results and Coding

**Session Details**
Saturday, February 23, 2019: 2:00 PM-3:15 PM
Moscone Center South, Exhibition Level, Hall D12
1.25 CME/CE

**Workshop**
**Moderator:** Cheryl K. Bernstein, RN BSN CCRC

**Learning Objectives:**
1. Describe the USP Chapter 797 allergy section compounding requirements for the allergy office
2. Discuss the FDA decision regarding compounding in the allergy office
3. Discuss the immunotherapy survey results and recommendations to prevent anaphylaxis

- **2:00 PM**
  - FDA Update on Allergen Extract Compounding
    - Andrew W. Murphy, MD FAAAAI

- **2:20 PM**
  - Question & Answer

- **2:25 PM**
  - Immunotherapy Survey Results
    - David I. Bernstein, MD FAAAAI

- **2:45 PM**
  - Question & Answer

- **2:50 PM**
  - Immunotherapy Coding: Problem Solving
    - Teresa Thompson, CPC CMSCS CCC

- **3:10 PM**
  - Question & Answer

Allied Health: Tree Nut Allergy: Clinical Update

**Session Details**
Saturday, February 23, 2019: 2:00 PM-3:15 PM
Moscone Center South, Exhibition Level, Hall D10
1.25 CME/CE

**Workshop**
**Moderator:** Terri Gagen-Hursey, NP

**Learning Objectives:**
1. Discuss the clinical application of component testing to tree nuts
2. Describe oral food challenges to tree nuts in the clinical setting
3. Discuss ways of teaching patients to integrate tree nuts into their diet after a successful tree nut challenge

- **2:00 PM**
  - Component Testing for Tree Nuts: What’s Useful? What’s New? What’s Coming?
    - Jennifer A. Dantzer, MD

- **2:20 PM**
  - Question & Answer

- **2:25 PM**
  - Tree Nut Oral Food Challenges: Logistics and Procedures: Are We All Doing This the Same Way?
    - Jodi A. Shroba, MSN APRN CPNP

- **2:45 PM**
  - Question & Answer

- **2:50 PM**
  - How Do We Convince Patients to Integrate Tree Nuts into Their Diet After a Successful Challenge?
    - Isabel J. Skypala, PhD RD

- **3:10 PM**
  - Question & Answer

Allied Health: Perspectives from the Allied Health Travel Scholarship Recipients

**Session Details**
Saturday, February 23, 2019: 2:00 PM-3:15 PM
Moscone Center South, Exhibition Level, Hall D8
1.25 CME/CE

**Workshop**
**Moderator:** Kim E. Mudd, RN MSN

**Learning Objectives:**
1. Discuss activities by Allied Health members that contribute to overall patient care

Allied Health: Perspectives from the Allied Health Travel Scholarship Recipients

**Session Details**
Saturday, February 23, 2019: 2:00 PM-3:15 PM
Moscone Center South, Exhibition Level, Hall D8
1.25 CME/CE

**Workshop**
**Moderator:** Kim E. Mudd, RN MSN

**Learning Objectives:**
1. Discuss activities by Allied Health members that contribute to overall patient care

Constructing Individualized Health Course Trajectories to Construct Better Models of Asthma and Other Immune/Inflammation Disorders

**Session Details**
Saturday, February 23, 2019: 3:30 PM-4:30 PM
Moscone Center South, Exhibition Level, Hall A
1.00 CME/CE

**Keynote**

**Moderator:**
Robert A. Wood, MD FAAAAI

Primary Speaker:
To be announced.

Learning Objectives:
1. to be added

4:45 PM-6:00 PM

2801 Hot Topics in Pediatric Allergy & Immunology
Allergens/Allergy Testing/Allergy Therapeutics

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 2, Room 207
1.25 CME/CE
Workshop
Moderator:
Elizabeth C. Matsui, MD MHS

Learning Objectives:
1. Describe the latest developments in pediatric allergy and immunology
2. Discuss how these findings impact the care of pediatric patients

4:45 PM Food Allergy
Pooja Varshney, MD

5:05 PM Question & Answer

5:10 PM Primary Immune Deficiency
Lisa R. Forbes, MD

5:30 PM Question & Answer

5:35 PM Asthma
Tamara T. Perry, MD

5:55 PM Question & Answer

2802 ABAI Continuous Assessment Program (CAP) Pilot: One Year Later
Allergy Office Practice

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 3, Room 303
1.25 CME/CE
Workshop
Moderator:
Theodore Monroe Freeman, MD FAAAAI

Learning Objectives:
1. Describe the CAP Pilot program and the importance of Maintenance of Certification
2. Describe what both the ABAI and its diplomates have learned through the first year of the program
3. Identify the current and proposed future changes to the CAP Pilot program and why they were made

4:45 PM ABAI's CAP Pilot Program Description: The Article-Based Open-Book Examination
Theodore Monroe Freeman, MD FAAAAI

5:05 PM What the ABAI and Its Diplomates Have Learned after the First Year of CAP
Kathleen R. May, MD FAAAAI

5:25 PM Current and Proposed Changes to the CAP Program
Mitchell H. Grayson, MD FAAAAI

5:45 PM Question & Answer

2803 Asthma and the Athlete: Insights from an Ironman Legend

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.25 CME/CE
Workshop
Moderator:
Justin C. Greiwe, MD FAAAAI

Learning Objectives:
1. Discuss how athletes deal with asthma/EIB from the personal account of a professional athlete
2. Discuss anti-doping regulations and therapeutic use exemptions for competitive athletes
3. Provide interactive space for an expert panel discussion with feedback from both the audience and Dr. Zeiger

4:45 PM Asthma and the Athlete: Insights from an Ironman Legend
Joanna Zeiger, MS, PhD

4:55 PM Question & Answer

5:00 PM Nuts and Bolts of Evaluating the Athlete with Dyspnea
Louis-Philippe Boulet, MD FRCP(C)

5:20 PM Question & Answer
Gender Disparities in Asthma: Are Hormones to Blame?

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 2, Room 205
1.25 CME/CE
Workshop

Moderator:
Kathryn E. Hulse, PhD

Learning Objectives:
1. Discuss recent research findings on how hormones regulate inflammatory pathways in asthma

4:45 PM  Sex Differences in AERD: Lipid Mediator Biology and Beyond
Katherine N. Cahill, MD

5:05 PM  Question & Answer

5:10 PM  Estrogen Signaling Modulates Macrophage Polarization

5:30 PM  Question & Answer

5:35 PM  Hormonal Programming of Epithelium in Asthma Phenotypes
Sergejs Berdnikovs, PhD

Quality Reporting and The Quality Clinical Data Registry: A 2019 Update

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 2, Room 203
1.25 CME/CE
Workshop

Moderator:
Andrew W. Murphy, MD FAAAAI

Learning Objectives:
1. Discuss any federal updates for the merit-based incentive payment system and quality reporting program
2. Discuss alternative payment models and implications for A/I practice
3. Describe the role of the AAAAI Quality Clinical Data Registry in implementing these requirements in practice

4:45 PM  Merit-Based Incentive Payment System and Quality Reports: Where Are We Now?
Emily L. Graham, RHIA CCS-P

5:05 PM  Question & Answer

5:10 PM  Alternative Payment Models for A/I Practice
Cindy H. Moon, MPP MPH

5:30 PM  Question & Answer

5:35 PM  What Is a Quality Clinical Data Registry and How Can It Help You?
Gary C. Steven, MD PhD FAAAAI

JACI Year-in-Review Workshop

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 3, Room 305
1.25 CME/CE
Workshop

Moderator:
Zuhair K. Balsas, MD FAAAAI

Learning Objectives:
1. Discuss how the JACI’s published content impacts the research or clinical practice of the attendees
2. Describe the latest advances in food allergy diagnosis and emerging treatments
3. Discuss the current research on atopic dermatitis

4:45 PM  Food Allergy
Carrie Keet, MD MS PhD

5:05 PM  Question & Answer

5:10 PM  Atopic Dermatitis
Emma Gutman-Yassky, MD PhD

5:30 PM  Question & Answer

5:35 PM  Biologics in Asthma
Stokes Peebles Jr., MD FAAAAI

5:55 PM  Question & Answer
A Review of Cross-Reactivity Patterns, Extract Stability, Optimal Dosing and Mixing for Subcutaneous Allergen Immunotherapy: A Case-Based Immunotherapy Prescription Mixing Workshop

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 2, Room 201
1.25 CME/CE

Workshop
Moderator:
Mike Tankersley, MD MBA FAAAAI

Learning Objectives:

1. Discuss the cross-reactivity patterns of pollens and stability of different extracts when mixed together (pollens vs molds vs danders vs dust mite)
2. Discuss the math-free guides recently published for allergen doses and glycerin concentrations
3. Discuss case scenarios and how one may formulate a patient’s immunotherapy prescription

4:45 PM Cross-Reactivity Patterns and Allergen Stability Relevant to Prescribing Allergen Immunotherapy
Tolly Epstein, MD FAAAAI

5:05 PM Question & Answer

5:10 PM Updated Math-Free Guidelines for Allergen Immunotherapy Doses and Glycerin Concentrations
Punita Ponda, MD FAAAAI

5:30 PM Question & Answer

5:35 PM An Open Discussion of Case Scenarios That Will Augment Your Existing Immunotherapy Prescribing Patterns
Christopher W. Calabria, MD FAAAAI

5:55 PM Question & Answer

Sputum Transcriptomics of Neutrophilic Asthma

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 151
1.25 CME/CE

Workshop
Moderator:
Sanjiv Sur, MD

Learning Objectives:

1. Identify neutrophilic inflammation in asthma

4:45 PM Multi-Tissue Transcriptomic Analysis of Neutrophilic Asthma

5:05 PM Question & Answer

5:10 PM Primary Title (Adcock): Sputum Transcriptomics of Neutrophilic Asthma / Alternative Title (Baines): Epigenetics of Neutrophilic Asthma
Jan M. Adcock, PhD

5:30 PM Question & Answer

5:35 PM Bronchoalveolar Lavage (BAL) and Serum Proteomic-Based Mechanistic Insights into Airway Neutrophilic Inflammation in Refractory Asthma

5:55 PM Question & Answer

The Effect of Health Disparities on Allergy and Immunology Practice

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 3, Room 301
1.25 CME/CE

Workshop
Moderator:
Julie Wang, MD FAAAAI

Learning Objectives:

1. Discuss how health disparities affect patients in the field of allergy/immunology and learn how to implement specific behaviors to improve health outcomes

4:45 PM What Are Health Disparities and Why Do They Occur?
Princess U. Ogbogu, MD FAAAAI

5:05 PM Question & Answer

5:10 PM Recognizing Health Disparities in Allergy and Immunology
Carla M. Davis, MD FAAAAI

5:30 PM Question & Answer

5:35 PM Bridging the Disparity Gap to Improve Health Outcomes
Andrea J. Apter, MD MA MSc FAAAAI

5:55 PM Question & Answer

Taking a Closer Look at Venom Immunotherapy from Several Angles

Drug/Insect Allergy/Vaccines

Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Level 2, Room 201
1.25 CME/CE

Workshop
Moderator:

4:45 PM What Are Health Disparities and Why Do They Occur?
Princess U. Ogbogu, MD FAAAAI

5:05 PM Question & Answer

5:10 PM Recognizing Health Disparities in Allergy and Immunology
Carla M. Davis, MD FAAAAI

5:30 PM Question & Answer

5:35 PM Bridging the Disparity Gap to Improve Health Outcomes
Andrea J. Apter, MD MA MSc FAAAAI

5:55 PM Question & Answer
Session Details
Saturday, February 23, 2019: 4:45 PM-6:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE
Workshop
Moderator:
Desiree E.S. Larenas Linnemann, MD FAAAAI

Learning Objectives:
1. Describe a variety of views on venom immunology issues
2. List strategies to improve patient and extract selection using molecular diagnosis for hymenoptera venom allergy
3. Discuss whether patients with specific underlying medical conditions might be candidates for VIT

4:45 PM
Who Really Need VIT?
Hanneke (J.K.G.) Oude Elberink, MD PhD

5:05 PM
Question & Answer

5:10 PM
VIT in Highly Reactive Patients and in Patients with Special Medical Conditions
James M. Tracy, DO FAAAAI

5:30 PM
Question & Answer

5:35 PM
VIT: Classic and Alternative Administration Schedules
David B.K. Golden, MD FAAAAI

5:55 PM
Question & Answer

Sunday, February 24, 2019

7:00 AM-8:00 AM
Non-IgE-Mediated Food Allergy: A Practical Approach for Recognition and Treatment TICKETED
Food Allergy

Session Details
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 10
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Terri F. Brown-Whitehorn, MD FAAAAI
Antonella Cianferoni, MD PhD FAAAAI

Learning Objectives:
1. Describe when to suspect non-IgE-mediated food allergies
2. Discuss diagnostic pathways to confirm non-IgE-mediated food allergies
3. Discuss current methods to treat non-IgE-mediated food allergies

7:00 AM-8:00 AM
Refractory Chronic Rhinosinusitis: When Does My Patient Need Surgery? TICKETED
Rhinosinusitis/Ocular Allergy

Session Details
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 2
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Robert C. Kern, MD
Joseph K. Han, MD FAAAAI

Learning Objectives:
1. Discuss the medical options for CRS, leading to maximal medical therapy
2. Describe when sinus surgery may be appropriate for a CRS patient and the different options for surgical intervention
3. Discuss biologics and surgical options

7:00 AM-8:00 AM
Making QI Work for You: How to Begin, Complete and Publish Your Ideas in Quality Improvement TICKETED
Allergy Office Practice

Session Details
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 3
1.00 CME/CE
Seminar
Primary Discussion Leaders:
Sujani Kakumanu, MD FAAAAI
Paige G. Wickner, MD MPH

Learning Objectives:
1. Describe the process of preparing a completed for publication including IRB submissions
2. Learners will be able to identify strategies to overcome barriers to quality improvement projects
3. Identify strategies to overcome barriers to quality improvement projects
4. Discuss the essential tools needed to begin, complete and publish a quality improvement intervention
5. Learners will be able to identify strategies to overcome barriers to quality improvement projects

7:00 AM-8:00 AM
Toxic Mold: Health Effects And Home Assessment TICKETED
Allergens/Allergy Testing/Allergy Therapeutics

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 4
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Jay M. Portnoy, MD FAAAAI
James J. Anderson, MLT

**Learning Objectives:**
1. Identify the risks/health issues associated with mold exposure
2. Discuss exposure to mold spores, MVOCs and mycotoxins
3. Describe how to counsel a patient regarding mold exposure in their home

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**3005 Nutritional Concerns in Children with IgE-Mediated Food Allergies**

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 5
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Kristin C. Sokol, MD MS MPH
Lauren Kronisch, RD LD

**Learning Objectives:**
1. Identify key nutritional deficits in children with IgE-mediated food allergy beyond just milk allergy
2. Discuss how single vs. multiple food allergies can affect nutrition, bone health and growth
3. Describe recent findings of nutritional deficits and bone health in a cohort of food allergy patients at the NIH

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**3006 Introducing the New 2017 ATS Updates to the 2005 ATS/ERS Guidelines: How to Perform, Interpret and Report Spirometry**

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 6
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
James M. Quinn, MD FAAAAI
Karla E. Adams, MD

**Learning Objectives:**
1. Identify the most recent ATS/ERS guidelines for spirometry including the 2017 updates from the ATS
2. Discuss ATS/ERS standards for performing acceptable and reproducible spirometry including the new grading guidelines from the 2017 ATS Update
3. Discuss and utilize ATS/ERS guidelines to interpret and report spirometry and classify abnormalities including use of Z scores newly recommended by the ATS in December 2017

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**3007 Big Data Approaches in the Allergy Field**

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 1
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Ting Wen, PhD
Leah Claire Nesbitt Kottyan, PhD

**Learning Objectives:**
1. Recall major NGS-based applications and their operating principles Remember major NGS-based applications and their operating principles. • Know what platforms are available and how to apply these platforms to allergy research. • Comprehend some basic analytical plans for big data. • Able to evaluate the strength and weakness of a NGS-based study • Able to construct a simple “big data” study to test specific hypothesis.
2. Explain what platforms are available and how to apply these platforms to allergy research
3. Discuss some basic analytical plans for big data

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**3008 Multi-Organ Involvement in Systemic Mastocytosis**

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 11
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Jonathan A. Bernstein, MD FAAAAI
Mariana C. Castells, MD PhD

**Learning Objectives:**
1. Discuss the diagnostic criteria of Mastocytosis
2. Discuss the diagnosis of anaphylaxis
Discuss the pathogenesis, mechanisms and diagnosis of GI and other organ involvement in mastocytosis

**Update on Health Care Reform, Registries, Measures and Guidelines **
**TICKETED**
*Allergy Office Practice*

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 12
1.00 CME/CE

**Primary Discussion Leaders:**
Gary C. Steven, MD PhD FAAAAI
To be announced.

**Learning Objectives:**
1. Discuss the current state of adherence assessment in clinical practice, and the impact of poor adherence on clinical outcomes
2. Discuss the ability of electronic medication monitoring to change adherence patterns in patients, as well as impact clinical outcomes
3. Identify potential barriers that may be a hindrance to the implementation of electronic medication monitoring in practice

**Caring for Your SCID Patient Post-Transplant**
**TICKETED**
*Immunodeficiency*

**Session Details**
Sunday, February 24, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 13
1.00 CME/CE

**Primary Discussion Leaders:**
Jennifer Heimall, MD
To be announced.

**Learning Objectives:**
1. Recognize, treat and monitor GVHD
2. Discuss the timeline and evaluation of functional T cell and B cell engraftment post-transplant
3. Discuss the infectious risks and use of antimicrobial prophylaxis/IVIG in the post-transplant period

**Systemic Regulation of Susceptibility and Pathogenesis of Allergic Inflammation**
*Immune Mechanisms*

**Session Details**
Sunday, February 24, 2019: 8:15 AM-10:15 AM
Moscone Center South, Exhibition Level, Hall A
1.50 CME/CE

**Moderator:**
Marsha Wills-Karp, PhD

**Learning Objectives:**
1. Define the mechanisms by which insulin sensitivity regulate allergic sensitization
2. Discuss the role of the gut microbiome on the propensity for allergen sensitization
3. Define how disruption of skin barrier predisposes to allergic sensitization

**Precision Medicine in the Era of Primary Immunodysregulatory Diseases**
*Immunodeficiency*

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE

**Symposium**

**Moderator:**
Karin Chen, MD

**Learning Objectives:**
1. Discuss the clinical manifestations of primary immunodysregulatory diseases
2. Describe precision based therapy in the treatment of primary immunodysregulatory diseases
3. Describe strategy and outcomes of hematopoietic stem cell transplantation for primary immunodysregulatory diseases

**Clinical Manifestations of Primary Immunodysregulatory Diseases**

Megan A Cooper, MD PhD
**Allied Health: Words Will Never Hurt Me: Empowering Food Allergic Patients to Handle Bullying and School Related Problems**

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Upper Mezzanine Level, Esplanade 156  
1.25 CME/CE

**Moderator:**  
Karol G. Timmons, RN MS CPNP

**Learning Objectives:**
1. Discuss the ways that bullying of food allergic patients may occur  
2. Describe teaching techniques that practitioners can use to help our patients  
3. Discuss the measures to keep food allergic patients safe at school

**10:45 AM**  
Bullying at School  
Jodi A. Shroba, MSN APRN CPNP

**11:05 AM**  
Question & Answer

**11:10 AM**  
Food Allergy Management in Schools  
Megan Ott Lewis, MSN CRNP

**11:30 AM**  
Question & Answer

**11:35 AM**  
Coping Strategies and Techniques to Handle Bullying  
Maria Crain, CPNP

**11:55 AM**  
Question & Answer

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**EAACI: Novel Developments in Endotype-Driven Approach for Allergic Diseases**

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Level 2, Room 207  
1.25 CME/CE

**Moderator:**  
Ioana O Agache

**Learning Objectives:**
1. Describe the recent advances in endotypes and biomarkers for allergic rhinitis, atopic dermatitis and allergen immunotherapy

**10:45 AM**  
Nasal Hypereactivity: A Special Endotype  
Peter W. Hellings, MD, PhD

**11:05 AM**  
Question & Answer

**11:10 AM**  
Biomarkers for Monitoring the Efficacy of Allergen Immunotherapy  
Mohamed H Shamji, BSc MSc PhD FAAAAI

**11:30 AM**  
Question & Answer

**11:35 AM**  
Atopic Dermatitis Endotypes: Ready for the Clinics?  
Peter Schmid-Grendelmeier, MD

**11:55 AM**  
Question & Answer

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**Biologics for Severe Asthma: Treatment-Specific Effects Important in Choosing a Specific Agent**

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Exhibition Level, Hall A  
1.25 CME/CE

**Moderator:**  
Thomas B. Casale, MD FAAAAI

**Learning Objectives:**
1. Discuss which T2 biologic is most appropriate to treat the corticosteroid-Dependent patient to reduce steroid burden  
2. Discuss which T2 biologic is most appropriate to treat the exacerbation-prone patient  
3. Discuss which T2 biologic is most appropriate to treat the corticosteroid-Dependent patient to reduce steroid burden  
4. Discuss which T2 biologic is most appropriate to treat the patient with fixed airway obstruction and low FEV1

**10:45 AM**  
Exacerbation Prone Patients  
Loren Denlinger, MD PHD

**11:05 AM**  
Question & Answer
3305  **Physician Health and Wellness: “We Need to Talk”**

*Allergy Office Practice*

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Level 2, Room 203  
1.25 CME/CE  
Symposium  
**Moderator:**  
Sharon B. Markovics, MD FAAAAI

**Learning Objectives:**
1. Describe and categorize the coping mechanisms an individual physician can utilize to alleviate burnout and stress as well as enhance resiliency
2. Discuss the ability to mitigate burnout and stress at both academic based and private medical settings, through a variety of mechanisms including empowering support staff and applying positive aspects of the electronic health record
3. Identify techniques to foster support from the medical community at large, including local, state and national allergy and immunology societies, to alleviate burnout and stress

- **10:45 AM** The Individual Physician’s Guide to Resiliency in the Current Healthcare Climate  
  Anil Nanda, MD FAAAAI
- **11:05 AM** Question & Answer
- **11:10 AM** Evidence-Based Strategies to Improve Professional Satisfaction Through Efficiencies of Practice  
  Hemant P. Sharma, MD MHS FAAAAI
- **11:30 AM** Question & Answer
- **11:35 AM** Utilizing Support from the Greater Medical Community at Large to Further Enhance Wellness  
  Theresa A. Bingemann, MD FAAAAI
- **11:55 AM** Question & Answer

3306  **Is EoE a Primary Barrier Defect?**

*Mast Cell/Eosinophilic Disorders*

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Level 2, Room 205  
1.25 CME/CE  
Symposium  
**Moderator:**  
Antonella Cianferoni, MD PhD FAAAAI

**Learning Objectives:**
1. Discuss what is familiar with Epitheliome in EoE
2. Discuss how an impaired barrier function favors EoE development
3. Describe how the Epithelium influences the immunological response in EoE

- **10:45 AM** Epitheliome in Eosinophilic Esophagitis  
  Carine Blanchard, PhD
- **11:05 AM** Question & Answer
- **11:10 AM** Barrier Dysfunction in Eosinophilic Esophagitis  
  Speaker to be announced.
- **11:30 AM** Question & Answer
- **11:35 AM** Can the Epithelium Shape the Immune Response in Eosinophilic Esophagitis?  
  Jonathan M. Spergel, MD PhD FAAAAI
- **11:55 AM** Question & Answer

3307  **Neuroimmune Interactions in the Allergic Immune Response**

*Immune Mechanisms*

**Session Details**
Sunday, February 24, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Level 3, Room 303  
1.25 CME/CE  
Symposium  
**Moderator:**  
Caroline L. Sokol, MD PhD

**Learning Objectives:**
1. Discuss the role of Mrgrp receptors in allergic reactions in response to drugs and allergens
2. Discuss how sensory neurons process potential threats and promote immune activation
3. Discuss the interactions between sensory neurons and ILC2 activation

- **10:45 AM** Neuron-ILC2 Interactions As Triggers of Allergic Inflammation
- **11:05 AM** Question & Answer
Sensory Neurons Promote the Allergic Immune Response

11:30 AM  Question & Answer

MRGPR Receptors in Allergic Reactions

Ethan A Lerner

11:55 AM  Question & Answer

3308  Translational Drug Allergy

Session Details
Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 3, Room 305
1.25 CME/CE
Symposium
Moderator:
Allison Ramsey, MD FAAAAI

Learning Objectives:
1. Describe challenges for the treatment of drug allergy in patients with medical comorbidities and strategies to improve patient outcomes and drug safety
2. Describe the current role of immunogenetic testing for the prediction of severe drug allergy syndromes and possible translation of genetic testing into clinical practice
3. Describe the recommended algorithm for determination of risk for cross-reactive antibiotic allergy

10:45 AM  Novel Approaches in the Management of the Complex Drug Allergic Patient
Jonathan Grant Peter, MD PhD

11:05 AM  Question & Answer

11:10 AM  Defining the Risk of Delayed Reactions: HLA and Beyond
Elizabeth J Phillips, MD FAAAAI FIDSA

11:30 AM  Question & Answer

11:35 AM  Antibiotic Allergy: Is Cross-Reactivity a Clinical Concern?
Jason A. Trubiano, MD PhD

11:55 AM  Question & Answer

3309  Genetic and Environmental Impact on Immune System Variability and Disease

Session Details
Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 201
1.25 CME/CE
Symposium
Moderator:
Christine M. Seroogy, MD FAAAAI

Learning Objectives:
1. Discuss the increasing knowledge of interindividual immune differences
2. Discuss technologies used for high dimensionality immune cell phenotyping and functional interrogation
3. Discuss the impact of genetic and environmental influences on immune maturation, phenotype, and disease expression

10:45 AM  Development of Tissue Resident Memory CD4 T-Cells
Donna L Farber, PhD

11:05 AM  Question & Answer

11:10 AM  Immunophenotype Mapping of Human Dendritic Cells

11:30 AM  Question & Answer

11:35 AM  Environmental and Genetic Influences on Innate Immune Cell Phenotypes

11:55 AM  Question & Answer

3310  Allied Health: Multidisciplinary Approach to Treating the Severe Pediatric Asthma Patient

Session Details
Sunday, February 24, 2019: 10:45 AM-12:00 PM
Moscone Center South, Exhibition Level, Hall D8
1.25 CME/CE
Symposium
Moderator:
Pooja Varshney, MD

Learning Objectives:
1. Describe assessment methodologies and management process of the pediatric patient with severe asthma
2. Discuss the treatment options with use of biologic therapies in pediatric patients with severe asthma
3. Identify the psycho-social challenges and barriers

10:45 AM  Multidisciplinary Approach with Severe Pediatric Asthma: Psychosocial Challenges
Melissa T. Korenblat-Hanin, ACSW LCSW

11:05 AM  Question & Answer

11:10 AM  Evaluation of the Pediatric Patient with Severe Asthma
3401  Asthma Medication Delivery Devices: How to Use Them and How to Teach Them

Asthma

Session Details
Sunday, February 24, 2019: 12:00 PM-2:00 PM
Moscone Center South, Exhibition Level, Hall D3
0.25 CME/CE
Workshop

Learning Objectives:
1. Demonstrate proper use of asthma medication delivery devices
2. Educate patients on use and cleaning of medication delivery devices in a standard fashion
3. Discuss indications for choosing a specific device for a patient

12:00 PM  Hands-on Training Station
Faculty
Sharmilee M. Nyenhuis, MD FAAAAI
Faculty
Caroline C. Horner, MD FAAAAI
Faculty
Brooke I. Polk, MD
Faculty
Evelyn L. Angulo, MD
Faculty
Anne E. Borgmeyer, DNP RN CPNP AE-C
Faculty
Lila C. Kertz, MSN RN CPNP
Faculty
Marc L. Rubin, BScPharm, RPh

3402  Oral Food Challenges II

Food Allergy

Session Details
Sunday, February 24, 2019: 12:00 PM-2:00 PM
Moscone Center South, Exhibition Level, Hall D3
0.00 CME/CE
Workshop

Learning Objectives:
1. Demonstrate techniques for administering oral food challenges in the office setting
2. Discuss practical aspects of safely preparing and administering foods for oral food challenges in different age groups
3. Demonstrate techniques for preparing foods for oral food challenges in the office setting

12:00 PM  Hands-On Training Station
Faculty
Speaker to be announced.
Faculty
Rushani W. Saltzman, MD
Faculty
Sara Anvari, MD, MSc
Faculty
Anne M. Hiegel, APRN
Faculty
Amy M. Scurlock, MD
Faculty
Angela Tsuang, MD, MSc

12:30 PM-1:30 PM

3501  Should I Test My Patient with Atopic Dermatitis for Food Allergies? TICKETED

Atopic Dermatitis

Session Details
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 2
1.00 CME/CE
Seminar

Primary Discussion Leaders:
Irene Mikhail, MD  
Anne Marie Singh, MD

Learning Objectives:
1. Describe the risk of IgE mediated food allergy in a young child with moderate to severe atopic dermatitis and the role of food allergy testing in this situation
2. Discuss the data on food-exacerbated atopic dermatitis and the best approach to diagnose and manage food triggers
3. Discuss the practical suggestions on formula selection and food introduction in infants and young children with atopic dermatitis

3502 What to Do with a Patient with Severe Chronic Rhinosinusitis  TICKETED

Rhinosinusitis/Ocular Allergy

Session Details
Sunday, February 24, 2019: 12:30 PM-1:30 PM  
Marriott, Lower B2 Level, Yerba Buena Salon 3  
1.00 CME/CE

Seminar
Primary Discussion Leaders:
Robert C. Kern, MD  
Anju T. Peters, MD, FAAAAI

Learning Objectives:
1. Describe the benefits and adverse effects associated with nasal rinses
2. Discuss balloon sinus surgery
3. Identify new treatment options including biologics

3503 Eosinophil Phenotypes: Location Matters TICKETED

Mast Cell/Eosinophilic Disorders

Session Details
Sunday, February 24, 2019: 12:30 PM-1:30 PM  
Marriott, Lower B2 Level, Yerba Buena Salon 4  
1.00 CME/CE

Seminar
Primary Discussion Leaders:
Patricia C. Fulkerson, MD PhD  
Lisa A. Spencer, PhD FAAAAI

Learning Objectives:
1. Describe the unique characteristics of eosinophil phenotypes, including homeostatic, regulatory and inflammatory eosinophils
2. Discuss how eosinophil phenotypes contribute to differential roles for eosinophils in disease and how current therapies impact the eosinophil “community” in disease
3. Discuss potential environmental cues that result in eosinophil phenotypes and impact the homeostatic eosinophil “community”

3504 Anti-Eosinophil Therapies for Severe Asthma and Beyond? TICKETED

Asthma

Session Details
Sunday, February 24, 2019: 12:30 PM-1:30 PM  
Marriott, Lower B2 Level, Yerba Buena Salon 5  
1.00 CME/CE

Seminar
Primary Discussion Leaders:
Sameer K. Mathur, MD PhD FAAAAI  
Praveen Akuthota, MD

Learning Objectives:
1. Describe and contrast the anti-IL-5 therapies and omalizumab
2. Identify the appropriate severe asthma patient for anti-IL-5 therapies
3. Discuss alternate eosinophil-related diagnoses that have or have not shown improvement with use of anti-IL-5 therapies

3505 Innovative Methods to Improve the Collection of Patient-Reported Outcomes (PROs) TICKETED

Research Principles

Session Details
Sunday, February 24, 2019: 12:30 PM-1:30 PM  
Marriott, Lower B2 Level, Yerba Buena Salon 1  
1.00 CME/CE

Seminar
Primary Discussion Leaders:
Sunit P Jariwala, MD FAAAAI  
Christopher D. Codispoti, MD PhD FAAAAI

Learning Objectives:
1. Identify which PROs are important to allergists
2. Discuss innovative methods to help collect PROs
3. Describe how collecting PROs improves outcomes and the quality of care

3506 The Role of the Practicing Allergist in the Management of EoE TICKETED

Mast Cell/Eosinophilic Disorders

Session Details
Sunday, February 24, 2019: 12:30 PM-1:30 PM  
Marriott, Lower B2 Level, Yerba Buena Salon 6  
1.00 CME/CE

Seminar
Primary Discussion Leaders:
Learning Objectives:

1. Discuss the role of allergy testing in the evaluation of the patient with EoE
2. Discuss the role of swallowed topical steroids versus elimination diets versus combination therapy in the management of EoE
3. Describe the potential impact of environmental allergen sensitization and subsequent allergen exposure on patients with EoE

**3507** Autoimmune Mimics of Allergic Disease TICKETED

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 10
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Mildred Kwan, MD PhD
Teresa K. Tarrant, MD FAAAAI

**Learning Objectives:**

1. Discuss how clinical allergist/immunologists will learn to recognize symptoms that occur in autoimmune disease that mimic atopic disease
2. Discuss when it is appropriate to refer these patients to a rheumatologist
3. Discuss the utility of serologic autoantibody testing in these patients

**3508** Approach to the Patient with Multiple Drug Allergies TICKETED

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 11
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Allison Ramsey, MD FAAAAI
Elizabeth J Phillips, MD FAAAAI FIDSA

**Learning Objectives:**

1. Discuss multiple drug allergies
2. Discuss how to develop diagnostic and management approaches in the allergy practice to effectively diagnose and treat the patient with multiple drug allergies

**3509** Diagnosis and Management of Contact Dermatitis in Patients

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 12
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Jonathan I. Silverberg, MD, PhD, MPH
To be announced.

**Learning Objectives:**

1. Discuss diagnosis of contact dermatitis
2. Review common contact allergens
3. Review treatment including contact allergen avoidance

**3510** Detergents in Allergic Sensitization TICKETED

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Marriott, Lower B2 Level, Yerba Buena Salon 13
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Cezmi A. Akdis, MD FAAAAI
Joan Cook-Mills, PhD

**Learning Objectives:**

1. Discuss the role of epithelium in initiation of allergic responses
2. Identify the pathophysiology of epithelial damage in initiation of food allergy, atopic dermatitis and asthma

**3511** Allied Health: Where Are We With Allergy Prevention? TICKETED

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Moscone Center South, Exhibition Level, Hall D11
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
David R Stukus, MD, FAAAAI
Carina Venter, PhD RD
Learning Objectives:

1. Discuss dietary advice to pregnant and breast feeding women regarding allergy prevention
2. Discuss which formulas to recommend for allergy prevention
3. Describe the practical aspects of early introduction of peanut and any other allergens of relevance

**Oral Immunotherapy is Essential for Food Allergy Management**

*Food Allergy*

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Moscone Center South, Exhibition Level, Hall A
1.00 CME/CE
Pro/Con Debate
Moderator:
Stacie M. Jones, MD

Primary Pro Speaker:
Richard L. Wasserman, MD PhD FAAAAI

Primary Con Speaker:
Robert A. Wood, MD FAAAAI

Learning Objectives:
1. Discuss the risks and benefits of oral immunotherapy in the management of food allergy

**The Severe Asthma Patient with Eosinophilic Phenotype Should Always Be Treated with Anti-IL-5 Therapies**

*Asthma*

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.00 CME/CE
Pro/Con Debate
Moderator:
Mario Castro, MD, MPH

Primary Pro Speaker:
Sally E. Wenzel, MD FAAAAI

Primary Con Speaker:
Thomas B. Casale, MD FAAAAI

Learning Objectives:
1. Discuss the data for and against treating the severe asthma patient with eosinophilic phenotype with anti-IL-5 therapies as the first-line biologic choice

**Injectable Epinephrine for Subcutaneous Immunotherapy: To Prescribe or Not?**

*Rhinosinusitis/Ocular Allergy*

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Moscone Center South, Level 2, Room 207
1.00 CME/CE
Pro/Con Debate
Moderator:
Desiree E.S. Larenas Linnemann, MD FAAAAI

Primary Pro Speaker:
David I. Bernstein, MD FAAAAI

Primary Con Speaker:
Mike Tankersley, MD MBA FAAAAI

Learning Objectives:
1. Discuss the risks associated with subcutaneous immunotherapy
2. Discuss the best practices to improve safety when treating patients with subcutaneous immunotherapy
3. Discuss appropriate treatment of anaphylaxis in general and preparedness for treatment of anaphylaxis in the office

**Skin Testing is Necessary Prior to Oral Penicillin Challenge in all Patients**

*Drug/Insect Allergy/Vaccines*

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:30 PM
Moscone Center South, Level 3, Room 305
1.00 CME/CE
Pro/Con Debate
Moderator:
Kimberly G. Blumenthal, MD, MSc

Primary Pro Speaker:
Kimberly A. Risma, MD, PhD, FAAAAI

Primary Con Speaker:
Moshe Ben-Shoshan, MD, MSc

Learning Objectives:
1. Describe the evidence supporting direct challenges in low risk populations
2. Recognize when penicillin skin testing is applicable
3. Discuss the evidence supporting penicillin allergy de-labeling
3554  **NIEHS: Novel Pathways Involved in Regulation of Airway Inflammation**

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:45 PM
Moscone Center South, Level 2, Room 203
1.25 CME/CE
Symposium

**Moderator:**
Donald Cook, PhD

**Learning Objectives:**
1. Discuss mechanisms through which lung macrophages regulate allergic inflammation of the lung
2. Identify how lung epithelial cells regulate inflammation, in part through communication with other cell types
3. Describe how the inherent plasticity of CD4+ T cells might be manipulated to suppress allergic inflammation

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<th>Time</th>
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<tr>
<td>12:30 PM</td>
<td>Role of Pulmonary Macrophages in Regulating Asthma Pathogenesis</td>
<td>John W Christman, MD</td>
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<td>12:50 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>12:55 PM</td>
<td>Role of Innate Lymphoid Cells in Allergic Inflammation</td>
<td>Allison A. Humble, PhD</td>
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<td>Question &amp; Answer</td>
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<tr>
<td>1:20 PM</td>
<td>Regulation of Allergic Inflammation through CD4+ T Cell Plasticity</td>
<td>Donald Cook, PhD</td>
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<td>Question &amp; Answer</td>
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3555  **Interferons Contribute to Allergic Disease: Lessons Learned from the AADCRC**

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:45 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE
Symposium

**Moderator:**
Wendy F. Davidson, PhD

**Learning Objectives:**
1. Describe how iNKT cells and their production of IFN drive food allergy
2. Discuss the contribution of high interferon states to asthma pathogenesis
3. Discuss interferon regulation of airway epithelial cell function controls asthma

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<th>Time</th>
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<tbody>
<tr>
<td>12:30 PM</td>
<td>High Interferon-Gamma Marks Severe Asthma</td>
<td>Anuradha Ray, PhD</td>
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<td>12:50 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>12:55 PM</td>
<td>Interferon Responses By Bronchial Epithelial Cells Contribute to Airway Disease</td>
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<td>Question &amp; Answer</td>
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<td>1:20 PM</td>
<td>Regulation of Interferon-Gamma Production by Innate and Adaptive Lymphocytes</td>
<td>Patrick J. Brennan, MD PhD</td>
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<td>1:40 PM</td>
<td>Question &amp; Answer</td>
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3557  **Interesting Cases Part II**

**Session Details**
Sunday, February 24, 2019: 12:30 PM-1:45 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 159
1.25 CME/CE
Workshop

**Learning Objectives:**
1. 1


**Session Details**
Sunday, February 24, 2019: 3:30 PM-4:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
0.50 CME/CE
Interest Section Forum

**Moderator:**
Caroline C. Horner, MD FAAAAI

**Learning Objectives:**
1. Discuss the data on efficacy of asthma education, acute management and assessment tools
2. Discuss strategies to better utilize asthma tools in practice

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>3:30 PM</td>
<td>Business Meeting</td>
<td>Caroline C. Horner, MD FAAAAI</td>
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</table>
4:00 PM  Asthma Education, Asthma Action Plans, and Peak Flow Meters: Which Strategies Actually Work?  
Speaker to be announced.

4:25 PM  Question & Answer

3702  BCI: What’s New In Vaccines  
Immune Mechanisms  
Session Details  
Sunday, February 24, 2019: 3:30 PM-4:30 PM  
Moscone Center South, Level 3, Room 303  
0.50 CME/CE  
Interest Section Forum  
Moderator:  
Elena E. Perez, MD PhD FAAAAI  
Learning Objectives:  
1. Discuss vaccine strategies to counter emerging infectious threats such as Ebola and Zika  
2. Discuss effective methods of communicating risk to the vaccine hesitant patient or parent  
3. Discuss how to review important updates in the approach to vaccinating the egg-allergic patient

3:30 PM  Business Meeting  
Elena E. Perez, MD PhD FAAAAI

3:55 PM  Communicating Risk: Counseling the Vaccine Hesitant Patient  
Jay R. Montgomery, MD FAAAAI

4:25 PM  Question & Answer

3703  EORD: Microbiome, Metabolome and Asthma: Clues for Treatment and Prevention  
Asthma  
Session Details  
Sunday, February 24, 2019: 3:30 PM-4:30 PM  
Moscone Center South, Level 2, Room 203  
0.50 CME/CE  
Interest Section Forum  
Moderator:  
Wanda Phipatanakul, MD MS FAAAAI  
Learning Objectives:  
1. Discuss the environment, microbiome, and metabolome as they relate to asthma, including new findings geared toward treatment and prevention

3:30 PM  Business Meeting  
Wanda Phipatanakul, MD MS FAAAAI

4:00 PM  Presenter  
Homer A. Boushey Jr., MD

4:25 PM  Question & Answer

3704  FADDA: HAE and EoE: Management in 2019  
Anaphylaxis/Urticaria/Angioedema  
Session Details  
Sunday, February 24, 2019: 3:30 PM-4:30 PM  
Moscone Center South, Level 2, Room 207  
0.50 CME/CE  
Interest Section Forum  
Moderator:  
Lynda C. Schneider, MD FAAAAI  
Learning Objectives:  
1. Discuss new medications for hereditary angioedema  
2. Discuss therapies for eosinophilic esophagitis

3:30 PM  Business Meeting  
Lynda C. Schneider, MD FAAAAI

3:55 PM  New Medications for HAE  
Aleena Banerji, MD

4:10 PM  EoE Therapies  
Jonathan M. Spergel, MD PhD FAAAAI

4:25 PM  Question & Answer

3705  HEDQ: Effect the Change You Wish to See in the Allergy Clinic  
Allergy Office Practice  
Session Details  
Sunday, February 24, 2019: 3:30 PM-4:30 PM  
Moscone Center South, Level 3, Room 301  
0.50 CME/CE  
Interest Section Forum  
Moderator:  
Asriani M. Chiu, MD FAAAAI  
Learning Objectives:  
1. Discuss ways to effect positive changes in behavior and how to sustain them

3:30 PM  Business Meeting
Asriani M. Chiu, MD FAAAAI

3:55 PM
Changing Provider Behaviors
Lily Pien, MD MHPE FAAAAI

4:10 PM
Changing Patient Behaviors
Gerald B. Lee, MD

4:25 PM
Question & Answer

3706

IRSO: Update in Rhinitis and Rhinosinusitis
Rhinosinusitis/Ocular Allergy

Session Details
Sunday, February 24, 2019: 3:30 PM-4:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
0.50 CME/CE

Interest Section Forum

Moderator:
Anju T. Peters, MD, FAAAAI

Learning Objectives:
1. Discuss the activities of the Sinusitis Committee
2. Discuss the activities of the Rhinitis Committee

3:30 PM
Business Meeting
Anju T. Peters, MD, FAAAAI

3:55 PM
Nasal Epithelial Behavior and Innate Immune Dysregulation in Rhinovirus-Induced Asthma Exacerbations
Larry Borish, MD, FAAAAI

4:10 PM
Update on Aspirin Exacerbated Respiratory Disease
Tanya M. Laidlaw, MD, FAAAAI

4:25 PM
Question & Answer

3707

MAAI: New Directions in Mast Cell Research
Mast Cell/Eosinophilic Disorders

Session Details
Sunday, February 24, 2019: 3:30 PM-4:30 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 151
0.50 CME/CE

Interest Section Forum

Primary Moderators:
Kari C. Nadeau, MD PhD
To be announced.

Learning Objectives:
1. Identify different developmental pathways for constitutive and induced mast cells, and potential roles in disease
2. Understand molecular markers differentiating mast cell subsets

3:30 PM
Business Meeting
Kari C. Nadeau, MD PhD

4:00 PM
Mast Cell Diversity and Implications for Allergic Disease Mechanisms and Therapy
K. Frank Austen, MD, FAAAAI

4:15 PM
Mast Cell Diversity and Implications for Allergic Disease Mechanisms and Therapy

4:25 PM
Question & Answer

Monday, February 25, 2019

7:00 AM-8:00 AM

Cross-Reactivity Patterns, Extract Stability, Optimal Dosing and Mixing for Subcutaneous Immunotherapy: A Case-Based Review of Immunotherapy Prescription Mixing TICKETED
Allergens/Allergy Testing/Allergy Therapeutics

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 2
1.00 CME/CE

Seminar

Primary Discussion Leaders:
Olga Luengo, MD, PhD
Tolly Epstein, MD FAAAAI

Learning Objectives:
1. Identify the math-free guides recently published for allergen doses and glycerin concentrations
2. Discuss cross-reactivity patterns of pollens and the stability of different extracts when mixed together (pollens vs molds vs danders vs dust mites)
3. Discuss case scenarios and how one may formulate a patient’s immunotherapy prescription

4002

Asthma/COPD Overlap Syndrome (ACOS) with and without Occupational Causes TICKETED
Lung Diseases other than Asthma

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 3
Management of Food Allergy in a Breastfed Infant

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 4

Primary Discussion Leaders:
- Kirsi M. Jarvinen-Seppo, MD PhD FAAAAI
- Marion E. Groetch, MS RDN

Learning Objectives:
1. Describe the evidence behind transfer of dietary food proteins in mother’s milk
2. Discuss the circumstances if and when maternal elimination diet is needed in the event of food allergies presenting in a breastfed infant

Up-to-Date Perspectives on Exercise Induced Bronchoconstriction

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 5

Primary Discussion Leaders:
- Justin C. Greiwe, MD FAAAAI
- John M. Weiler, MD FAAAAI

Learning Objectives:
1. Increase knowledge of current treatment recommendations
2. Discuss the difference between exercised induced asthma and exercise induced bronchoconstriction
3. Increase understanding of pathogenesis and improved diagnosis by using objective testing

Diagnosis and Treatment of Common Skin Conditions and Cutaneous Drug Allergy in Older Adults

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 1

Primary Discussion Leaders:
- Anil Nanda, MD FAAAAI
- David Randolph Weldon, MD FAAAAI

Learning Objectives:
1. Formulate and categorize the causes and differential diagnoses for pruritis, allergic dermatitis, and cutaneous drug reactions in older adults
2. Demonstrate the ability to summarize the current scientific literature involving allergic dermatological conditions in older adults
3. Compare and contrast the current and potential future therapeutic options for allergic dermatitis conditions, specifically with regards to older adults

Writing Orders for Immunoglobulin Therapy

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 6

Primary Discussion Leaders:
- Elena E. Perez, MD PhD FAAAAI
- Kenneth Paris, MD MPH

Learning Objectives:
1. Discuss how to collaborate with patients in choosing the initial immunoglobulin therapy best suited to them
2. Discuss how to best advise patients regarding alternative immunoglobulin therapies when the initial treatment is unsatisfactory
3. Discuss how to choose the particular immunoglobulin products based on product characteristics and patient risk factors

Mast Cell Tryptases and Alpha-Tryptasemia

Session Details
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 10

Primary Discussion Leaders:
Jonathan J. Lyons, MD
Dean D. Metcalfe, MD, FAAAAI

Learning Objectives:
1. Identify how mast cell tryptases exert their biologic function
2. Compare and contrast the function of alpha and beta tryptases
3. Define alpha tryptasemia

**4008 Idiopathic Anaphylaxis: The Overlap with CIU/AE and MCAS and Approach to Patient Care** TICKETED

Anaphylaxis/Urticaria/Angioedema

**Session Details**
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 11
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Anne Marie Ditto, MD FAAAAI
Mariana C. Castells, MD PhD

Learning Objectives:
1. Increase familiarity with IA and its presentation and response to treatment
2. Understand clinical implications and importance of possible overlap of IA with MCAS in patients

**4009 Genetics 101 for the Practicing Immunologist** TICKETED

Immune Mechanisms

**Session Details**
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 12
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Manish J. Butte, MD PhD
Attila Kumanovics, MD

Learning Objectives:
1. Evaluate the best panel to choose for your evaluation after immunological laboratory findings
2. Analyze when to consider whole exome or whole genome sequencing
3. Interpret findings: pathogenic mutations vs VUS, ExAc frequency and predictions

**4010 Current and Future Directions in Rhinitis and Sinusitis in Children** TICKETED

Rhinosinusitis/Ocular Allergy

**Session Details**
Monday, February 25, 2019: 7:00 AM-8:00 AM
Marriott, Lower B2 Level, Yerba Buena Salon 13
1.00 CME/CE
Seminar

**Primary Discussion Leaders:**
Fuad M. Baroody, MD FAAAAI
Daniel L. Hamilos, MD FAAAAI

Learning Objectives:
1. Discuss advancements and controversies in medical treatment in pediatric rhinitis and rhinosinusitis
2. Discuss surgical options for treating CRS and nasal obstruction
9:45 AM  Question & Answer

4301  Asthma Development: The Environment and Prevention in Early Life

Session Details
Monday, February 25, 2019: 10:45 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 155
1.25 CME/CE
Symposium
Moderator:
Andrew H. Liu, MD FAAAAI

Learning Objectives:
1. Discuss current paradigms and modifiable environmental risk factors of asthma development in early life
2. Discuss current NIH-sponsored studies to strengthen understanding of modifiable risk factors, asthma inception and expression
3. Discuss rationale and data supporting ongoing NIH funded asthma prevention trials that target and intervene on environmental and modifiable risk factors

10:45 AM  Asthma Inception: Children’s Respiratory and Environmental Workgroup (CREW) and Environmental Influences on Child Health Outcomes (ECHO) Programs
James E. Gern, MD FAAAAI
11:05 AM  Question & Answer
11:10 AM  Asthma Development in Early Life: Urban Environment and Childhood Asthma (URECA)
Leonard B. Bacharier, MD FAAAAI
11:30 AM  Question & Answer
11:35 AM  Asthma Prevention: Moving the Needle Towards Preventing and Modifying Disease Expression
Wanda Phipatanakul, MD MS FAAAAI
11:55 AM  Question & Answer

4302  Difficulties in the Management of Older Patients with Asthma

Session Details
Monday, February 25, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 2, Room 201
1.25 CME/CE
Symposium
Moderator:
Sharmilee M. Nyenhuis, MD FAAAAI

Learning Objectives:
1. Discuss the clinical presentation of asthma in older adults
2. Discuss the unique features of asthma in older patients and comorbidities that may mimic asthma symptoms
3. Identify diagnostic algorithms for asthma in the elderly

10:45 AM  Asthma Self-Management: Addressing Barriers in Older Patients with Asthma
Alex Federman, MD, MPH
11:05 AM  Question & Answer
11:10 AM  Inflammatory Pathways in Older Patients with Asthma: Implications for Management
Paula J. Busse, MD FAAAAI
11:30 AM  Question & Answer
11:35 AM  Diagnostic Challenges in the Aged Patient with Asthma
Carol A. Saltoun, MD FAAAAI
11:55 AM  Question & Answer

4303  Schools and Tools: How We Can Advance the Management of Asthma, Food Allergies and Anaphylaxis

Session Details
Monday, February 25, 2019: 10:45 AM-12:00 PM
Moscone Center South, Upper Mezzanine Level, Esplanade 156
1.25 CME/CE
Symposium
Primary Moderators:
Stanley J. Szefler, MD FAAAAI
Robert F. Lemanske Jr., MD, FAAAAI

Learning Objectives:
1. Identify how schools can improve care coordination of asthma and allergic disease and how federal and state policy may incentivize these initiatives
2. Discuss the resources and digital tools to disseminate SAMPRO in their local communities
3. Identify future expansions of the SAMPRO initiative including resources to coordinate care of food allergy and anaphylaxis with schools

10:45 AM  Policy and Partnerships: How Community Partnerships and Federal/State Legislation Are Advancing Implementation
Andrea A. Pappalardo, MD FAAAAI
11:05 AM  Question & Answer
11:10 AM  Food Allergies: Improving Our Tools to Manage Food Allergies and Anaphylaxis in Schools
Julie Wang, MD FAAAAI
11:30 AM  Question & Answer

11:35 AM  Digital Health: How Digital Tools Can Improve Data Sharing and Disease Management in Schools  
Sujani Kakumanu, MD FAAAAI

11:55 AM  Question & Answer

4304  Emerging Food Allergy Therapies  
Session Details  
Monday, February 25, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Exhibition Level, Hall A  
1.25 CME/CE  
Symposium  
Moderator:  
Rima A. Rachid, MD FAAAAI

Learning Objectives:
1. Discuss the safety and efficacy of oral immunotherapy and identify potential individuals for whom this may be appropriate
2. Discuss the safety and efficacy of epicutaneous immunotherapy and identify potential individuals for whom this may be appropriate
3. Identify novel therapeutic approaches to the management of food allergy, including monotherapy with monoclonal antibodies

10:45 AM  OIT: Efficacy and Patient Selection  
Brian P. Vickery, MD FAAAAI

11:05 AM  EPIT: Efficacy and Patient Selection  
Jacqueline A. Pongracic, MD FAAAAI

11:25 AM  SLIT: Efficacy and Patient Selection  
Edwin H. Kim, MD FAAAAI

11:45 AM  Panel Discussion

4305  Targeting the Outside: Moving in on Atopic Dermatitis  
Session Details  
Monday, February 25, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Level 3, Room 305  
1.25 CME/CE  
Symposium  
Moderator:  
Anil Nanda, MD FAAAAI

Learning Objectives:
1. Discuss the current topical and other non-biologic therapies for atopic dermatitis
2. Discuss the current available biologic options to treat atopic dermatitis
3. Identify new therapies in the pipeline for atopic dermatitis

10:45 AM  My Patient Is Not Eligible for Biologics: Current Non-Biologic Therapies for Atopic Dermatitis  
Mark Boguniewicz, MD FAAAAI

11:05 AM  Question & Answer

Lisa A. Beck, MD FAAAAI

11:30 AM  Question & Answer

11:35 AM  What Is Upcoming in the Pipeline for Atopic Dermatitis?  
Michael D. Howell, PhD

11:55 AM  Question & Answer

4306  Hot Topics in Immunotherapy  
Session Details  
Monday, February 25, 2019: 10:45 AM-12:00 PM  
Moscone Center South, Level 2, Room 207  
1.25 CME/CE  
Symposium  
Moderator:  
Punita Ponda, MD FAAAAI

Learning Objectives:
1. Summarize the literature on cluster immunotherapy and to highlight different regimens utilized and new findings in recent years on safety, pre-medication, clinical pearls and efficacy
2. Identify changes in USP guidelines in recent years and how to implement those changes in your office and ensure you are following the guidelines
3. Discuss the growing trend for off-label SLIT

10:45 AM  Cluster Immunotherapy: The Benefits and Risks and How to Implement It in Your Practice  
Linda S Cox, MD FAAAAI

11:05 AM  Question & Answer

11:10 AM  Changes in USP Guidelines and What It Means for Your Office  
Andrew W. Murphy, MD FAAAAI

11:30 AM  Question & Answer

11:35 AM  Evidence Based Use of Oral SLIT
The Initiation of Allergic Immunity: From Innate Sensors to Initiation of Adaptive Immune Responses

Anne K. Ellis, MD FRCPC FAAAAI

11:55 AM Question & Answer

4307

Session Details
Monday, February 25, 2019: 10:45 AM-12:00 PM
Moscone Center South, Level 3, Room 303
1.25 CME/CE
Symposium
Moderator:
Sarah E. Henrickson, MD/PhD

Learning Objectives:
1. Discuss the role of tuft cells in the gut and specifically their role in allergic immune initiation
2. Discuss novel mechanisms controlling dendritic cell activation and migration in response to allergens
3. Describe allergen interactions with airway epithelium and airway accessory cells and understand the role of these interactions in allergic immune responses

10:45 AM Dendritic Cell Control of Type-2 Immunity
Caroline L. Sokol, MD PhD

11:05 AM Question & Answer

11:10 AM The Role of Gut Tuft Cells in Type 2 Immune Initiation
Jakob von Moltke

11:30 AM Question & Answer

11:35 AM Type 2 Immunity Elicited By Airway Allergens
Nora A. Barrett, MD

11:55 AM Question & Answer
**Session Details**

**Monday, February 25, 2019: 3:30 PM-4:45 PM**

Moscone Center South, Upper Mezzanine Level, Esplanade 151

1.25 CME/CE

Workshop

**Moderator:**

Paul A. Greenberger, MD FAAAAI

**Learning Objectives:**

1. Describe the possible roles of challenge data in addition to or in place of field data in support of licensure for allergen immunotherapy products
2. Describe recently approved treatments for Hereditary Angioedema
3. Describe the potential role of real-world evidence in informing drug safety

**3:30 PM**

Challenges in Clinical Trials: Expanding the Range of Data in Support of Licensure of New Allergen Immunotherapy Products
Joohee Lee, MD

**3:50 PM**

Question & Answer

**3:55 PM**

Update on HAE Therapies
Stacy Chin, MD

**4:15 PM**

Question & Answer

**4:20 PM**

Use Real World Evidence in Drug Development
Miya O. Paterniti, MD

**4:40 PM**

Question & Answer

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**4712**

**Telemedicine in Practice: From Contemplation to Implementation**

Allergy Office Practice

**Session Details**

Monday, February 25, 2019: 3:30 PM-4:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 152

1.25 CME/CE

Workshop

**Moderator:**

Evan Atkinson, MD, MS

**Learning Objectives:**

1. Discuss how telemedicine can be used to enhance patient care delivery and understand important regulations governing the implementation of telemedicine
2. Describe the requisite hardware and software needed to successfully implement telemedicine
3. Discuss how to participate in a live telemedicine demonstration

**3:30 PM**

Introduction to Telemedicine
Reena S. Mehta, MD

**3:50 PM**

Question & Answer

**3:55 PM**

Telemedicine Pearls and Pitfalls: Practical Advice from an Experienced Provider
Jay M. Portnoy, MD FAAAAI

**4:15 PM**

Question & Answer

**4:20 PM**

Hands On Demo: Live Demonstration of a Synchronous Telemedicine Visit
Sakina S. Bajowala, MD FAAAAI

**4:40 PM**

Question & Answer

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**4713**

**Laryngeal Syndromes: Presenting as Asthma at Home and in the Workplace**

Lung Diseases other than Asthma

**Session Details**

Monday, February 25, 2019: 3:30 PM-4:45 PM

Moscone Center South, Upper Mezzanine Level, Esplanade 159

1.25 CME/CE

Workshop

**Moderator:**

To be announced.

**Learning Objectives:**

1. Understand the management and outcome of laryngeal syndromes
2. Understand the features in the history that lead to a suspicion of laryngeal syndromes

**3:30 PM**

When to Suspect a Laryngeal Cause for Respiratory Symptoms and How Common Is This?

**3:50 PM**

Question & Answer

**3:55 PM**

Diagnostic Approaches for Laryngeal Syndromes for the Allergist
Kenneth W. Altman, MD, PhD

**4:15 PM**

Question & Answer

**4:20 PM**

How to Manage Laryngeal Syndromes and Associated Outcomes

**4:40 PM**

Question & Answer

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**4714**

**Pathways to Approval for New or Novel Hymenoptera Venom Allergenics**

Drug/Insect Allergy/Vaccines

**Session Details**

Monday, February 25, 2019: 3:30 PM-4:45 PM
Moscone Center South, Level 2, Room 201
0.00 CME/CE
Workshop
Moderator:

Jay E. Slater, MD

Learning Objectives:
1. Understand the current model for approval of venom immunotherapy products in the US
2. Understand the role of sting challenge in the evaluation of venom
3. Identify alternative approaches to the evaluation of venom immunotherapy products

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<th>Presenter(s)</th>
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<tr>
<td>3:30 PM</td>
<td>Clinical Use and Outcome Measures for Hymenoptera Venoms</td>
<td>David BK Golden, MD FAAAAI</td>
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<td>3:50 PM</td>
<td>Question &amp; Answer</td>
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<tr>
<td>4:10 PM</td>
<td>Approval of New and Novel Venom AIT Products: Efficacy Assessments</td>
<td>Anubha Tripathi, MD</td>
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<td>4:30 PM</td>
<td>Question &amp; Answer</td>
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<td>Sting Challenge in the Assessment of Venom AIT in Europe</td>
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<td>Biomarkers in the Assessment of Venom AIT</td>
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