New Paradigms in the Management of Allergic Disease
– Focus on Biologics

#AAAAI20
Welcome

Dear Colleagues,

Thank you for joining us at the 2020 AAAAI Annual Meeting, where our clinical theme is New Paradigms in the Management of Allergic Diseases – Focus on Biologics. This class of medications has ushered us into an era of “precision” therapy, and dramatically improved outcomes for many of our patients with conditions such as asthma, atopic dermatitis, chronic urticaria, hereditary angioedema, and more recently chronic rhinosinusitis. Updates highlighting these agents are one of the main draws of this year’s program.

While the theme covers about 20% of our sessions, the remaining 80% were developed through member submissions and includes a robust selection of basic and clinical science programming. The labels and key inside this program will help you determine which sessions relate to the theme or to our other session tracks.

Add the Plenary and Keynote Sessions to Your Schedule

Join us Friday at 1:30 pm for the Presidential Plenary. You can expect a provocative large group session that will prepare you to discuss the “why” and “how” pertaining to:

• Improved patient-centered healthcare outcomes and whether they can be achieved via our transition to value-based reimbursement
• Telemedicine as an emerging and disruptive influence in health care
• The future of clinical practice guidelines and their promise for optimizing healthcare decision making and improving patient-centered healthcare outcomes

Our plenary sessions continue at 8:15 am on Saturday, Sunday, and Monday, where you can learn about: new paradigms in the management of severe asthma; the roles of airway epithelium in healthy and allergic metabolic and immune responses; and implications for managing rhinoviruses, atopy, and asthma exacerbations in an era of biologics and precision medicine.

We are especially excited for Shantanu Agrawal, MD, MPhil, President and CEO of the National Quality Forum, to deliver the 2020 Annual Meeting Keynote on Saturday at 3:30 pm. Dr. Agrawal will cover how quality measurement is evolving to address the shift to value, tools and resources available to providers to focus on quality care at the bedside, and opportunities to address health equity through quality improvement.

Preview Updates to the Asthma Guidelines

While the updated asthma guidelines will not be released until late summer or early fall, a special session will preview the 4th Expert Panel Report (EPR-4). The session is National Asthma Education and Prevention Program Expert Panel Report on Selected Topics in Asthma Management 2020, and takes place Friday at 3:15 pm. Members of the EPR-4 Working Group are among the speakers, so you will be able to ask questions of those who were directly involved with developing these guidelines.

Download Our App and Join the Social Media Conversation

Make sure to download the official 2020 Annual Meeting app, which allows you to: interact with other attendees; access session handouts and abstracts; search by speakers to add their sessions to your schedule; learn about program changes; and navigate the Convention Center with interactive maps and exhibitor information. Most importantly, the app offers the only way to complete faculty program handouts. This rule applies before, during and/or after the meeting.

Support A/I Research at the AAAAI Foundation Events

Fun and camaraderie with your fellow attendees awaits you at the AAAAI Foundation’s events: Saturday’s Benefit at the Please Touch Museum and Sunday’s 5K Run/Walk at the Philadelphia Navy Yard. By registering and attending, you are showing your support for dedicated allergy/immunology research.

We wish you a fulfilling educational and networking experience during your time in Philadelphia.

Sincerely,

David M. Lang, MD FAAAAI
AAAAI President

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Chair, Annual Meeting Program Committee
Annual Meeting Program Committee

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Coding Questions?

For the expert advice your practice needs, email your coding questions to:
Coding@aaaai.org

"Thank you so very much for all assistance that you provide on billing and coding!!! I have sent several emails previously and I receive great communication and answers."

solo practitioner
November, 2019

Brought to you by the AAAAI Office of Practice Management and coding consultant Teresa Thompson, CPC, CMCS.
Pre-order at the early bird price of $185 at the Registration Desk by March 16, 2020. Recordings will be available in early summer 2020.

The Virtual Annual Meeting includes plenaries, the keynote, and various sessions including workshops, symposia, pro/con debates, and courses. These recordings can serve as a resource for training students, residents, fellows, and office staff, and are an excellent tool for satisfying Maintenance of Certification requirements.

Accessible in two options:
- Online streaming
- Downloadable files for any device
Meeting Information

AAAAL Journals
Convention Center, 100 Level, Broad Street Atrium
Key representatives from The Journal of Allergy and Clinical Immunology (JACI), and sister journal The Journal of Allergy and Clinical Immunology: In Practice, the two most-cited allergy/immunology journals, will be available to answer your questions regarding subscriptions and submissions.

The AAAAI Journals desk will be open Friday, March 13 through Monday, March 16, from 7:00 am to 5:00 pm daily.

Abstracts
Abstracts programmed at the 2020 Annual Meeting were published as an online supplement to The Journal of Allergy and Clinical Immunology (JACI) and can be accessed on the JACI website, jacionline.org.

Admission to Sessions
Admission to Annual Meeting educational sessions is reserved for meeting registrants and registered members of the press only. Guests and exhibitors will not be admitted to educational sessions. Ushers will monitor the name badges of all meeting attendees to control access to educational sessions.

Some sessions require tickets for entry, which are indicated in this program with a ticket icon. Ticketed sessions have limited attendance and an additional fee. All educational sessions requiring such fees will be noted in the sessions by day schedule. Please visit the Registration Desk to register for ticketed sessions. In consideration of state fire codes and as a courtesy to others, those without tickets will not be allowed access into ticketed sessions.

American Academy of Allergy, Asthma & Immunology Foundation (AAAAI Foundation)
Funding research that leads to the prevention and cure of asthma and allergic and immunologic disease.

Convention Center, 100 Level, Broad Street Atrium
Visit the AAAAI Foundation desk to purchase and pick up special event tickets, support ribbons and AAAAI Foundation merchandise.

Booth Hours
Thursday, March 12  3:00 to 7:00 pm
Friday, March 13  7:30 am to 5:00 pm
Saturday, March 14  7:30 am to 5:00 pm
Sunday, March 15  7:30 am to 12:30 pm

Donations to support research can be made to the Grow Allergy & Immunology Now (GAIN) Campaign at any time during the meeting by pressing the STAR icon on the Annual Meeting app.

Click the STAR now to support researchers in our field!

Annual Meeting Mobile App
Supported in part by AstraZeneca.

The AAAAI has a mobile app dedicated to the 2020 Annual Meeting. This app features tools allowing you to search by speaker or session type, organize your schedule, evaluate speakers and sessions, respond to polls and ask questions in sessions, stay current with changes as they occur during the meeting, and navigate the Convention Center with floor plans and exhibitor information. Download the 2020 Annual Meeting app from the App Store or Play Store on your mobile device.

Associates to the AAAAI
See Hospitality Suite.

ATMs
The Convention Center has ATMs located on the 100 Level near Room 119 and near the 12th & Arch Street East & West entrances; on the 200 Level near Room 202 restrooms, outside of the gift shop & passenger elevator by the spiral staircase, and outside of Hall E; and on the 400 Level near Terrace Ballroom IV.

Business Center
The Convention Center Business Center is located on the 200 Level between Halls B and C. Services include photocopying, computer workstations, fax services, UPS services and office supplies.

The Philadelphia Marriott Downtown’s FedEx Business Center is located in the lobby area. Services include photocopying, computer workstations, fax services, FedEx services and office supplies.

Career Fair
Saturday, March 14, 10:00 am to 3:00 pm
Convention Center, 400 Level, Terrace Ballroom Concourse
Delegates attending the Annual Meeting will have the opportunity to make valuable connections at the Career Connections Job Fair. Employers will be available to meet potential candidates and share information about open positions. Job seekers, regardless of the stage in their career, can hand out copies of their resume, browse the on-site job board and set up potential interviews with companies all at no cost. The AAAAI’s recruitment resources open doors to a wealth of possibilities for both the employer and the job seeker. It only takes a moment to make the connection that could lead to the career of a lifetime.

Case Report Poster Sessions
Convention Center, 200 Level, Hall D
The Case Report Poster Sessions are open on Saturday, March 14, and Sunday, March 15, from 9:45 to 10:45 am daily.
Meeting Information

Charging Lounges
Relax between sessions and recharge your electronic devices or connect with colleagues in these lounges. We are pleased to offer 6 locations this year:

- **Concourses**
  - Sponsored by Regeneron and Sanofi Genzyme.
  - Convention Center, 100 Level, Broad Street Atrium
  - Sponsored by Takeda.
  - Convention Center, 100 Level, Broad Street Atrium
  - Sponsored by GSK.
  - Convention Center, 100 Level, Room 119 Concourse
  - Sponsored by Genentech/Novartis.
  - Convention Center, 400 Level, Terrace Ballroom Concourse

- **Hall D**
  - Sponsored by Regeneron and Sanofi Genzyme.
  - Convention Center, 200 Level, Hall D, 200 Aisle
  - Sponsored by Takeda.
  - Convention Center, 200 Level, Hall D, 400 Aisle

Children and Guests
The AAAAI asks delegates to refrain from taking children, spouses or guests to any educational session offered at the 2020 Annual Meeting. Registered guests are welcome to relax in the Hospitality Suite or visit the Exhibit Hall; however, an adult must accompany children under the age of 18 at all times. Most Philadelphia hotels can provide their guests with a list of independent babysitters and babysitting agencies frequently used by visitors. For more information, please contact the concierge at the appropriate hotel.

Education Station
Visit the AAAAI Education Station to:
- Learn about online educational opportunities.
- Register for live courses beyond the Annual Meeting.
- Share clinical challenges you have experienced to help shape future activities.

**Education Station Hours**
- Friday, March 13: 7:30 am to 5:00 pm
- Saturday, March 14: 7:30 am to 5:00 pm
- Sunday, March 15: 7:30 am to 4:00 pm
- Monday, March 16: 7:30 am to 3:00 pm

Emergency
In the event of an emergency in the Convention Center, please use one of the house telephones available next to all Convention Center restrooms to dial 4911 or call the Command Station at (215) 418-4911. At the Marriott, dial 0 from any house phone. House phones are located in most meeting rooms and the foyer on each level.

Evaluations
Delegates will be able to provide feedback on their experiences at the Annual Meeting in two ways:
- Participants will be asked to provide input on the educational program of the 2020 Annual Meeting through the online CME Claim System when claiming credit for participation.
- Delegates can provide feedback on Annual Meeting faculty members and the sessions they attend by using the mobile app.

Exhibits
The exhibiting companies and organizations will provide you with the latest information on products and services available to physicians, researchers and allied health professionals in the field of allergy/immunology. The directory on page 104 will provide you with the information you need to take full advantage of the opportunities offered by exhibitors.

Please allow adequate time in your daily schedule to visit the exhibits. Take time to speak with representatives of companies that provide services or market products directly related to your professional interests.

**Exhibit Hours**
- Saturday, March 14: 9:45 am to 3:15 pm
- Sunday, March 15: 9:45 am to 3:15 pm
- Monday, March 16: 9:45 am to 2:00 pm

Faculty Disclosures
Copies of all speakers’ disclosure information are available online at the Annual Meeting website and in the Speaker Resource Room.

First Aid
Non-emergency medical services are available in the First Aid room, located between Halls C and D, during event hours.

Food Outlets
There are coffee, food and beverage vendors located throughout the Convention Center. There are also two restaurants in the Marriott.

Handouts
Handouts at the 2020 Annual Meeting will be available in two ways:
- **Online Handouts**
  - The most up-to-date versions of the 2020 Annual Meeting handouts are available to meeting delegates in the Online Planner at annualmeeting.aaaai.org during and after the Annual Meeting, and in the session listings in the mobile app. Delegates are able to view, download and print available session handouts. Handouts can be searched by session number, session title or a speaker’s last name.
- **Handout Printing Stations**
  - Convention Center, 100 Level, Room 126 Concourse
  - Convention Center, 200 Level, Hall D
  - Convention Center, 400 Level, Terrace Ballroom Concourse
  - Marriott, Level 5, Grand Ballroom Concourse
Meeting Information

Hospitality Suite
Marriott, Level 4, Room 404
Attendees with guest badges are welcome to relax in the Hospitality Suite. Stop in for information on local attractions and shopping, or just relax and enjoy some friendly conversation.

Hospitality Suite Hours
Friday, March 13  8:00 am to 12:00 pm
Saturday, March 14  8:00 am to 12:00 pm
Sunday, March 15  8:00 am to 12:00 pm
Monday, March 16  8:00 am to 12:00 pm

Lost and Found
In the event that you have lost or found a personal belonging, please see the AAAAI Registration Desk in the Convention Center, 100 Level, Broad Street Atrium to either turn in or report a lost item. Please be prepared to provide a detailed description of your missing article.

Luggage Storage
Convention Center, 100 Level, Broad Street Atrium
Complimentary storage for luggage and coats will be available on all event days.

Luggage Storage Hours
Thursday, March 12  6:30 am to 5:30 pm
Friday, March 13  6:30 am to 5:30 pm
Saturday, March 14  6:30 am to 6:00 pm
Sunday, March 15  6:30 am to 6:30 pm
Monday, March 16  7:00 am to 5:00 pm

Member Resource Center
Convention Center, 100 Level, Broad Street Atrium
Visit the AAAAI Member Resource Center to:
• Take advantage of Annual Meeting discounts on all public education products.
• Pay your dues, update your membership information or learn how to become a member.

Member Resource Center Hours
Thursday, March 12  12:00 to 7:00 pm
Friday, March 13  7:30 am to 5:00 pm
Saturday, March 14  7:30 am to 5:00 pm
Sunday, March 15  7:30 am to 5:00 pm
Monday, March 16  7:30 am to 4:00 pm

Name Badges
All registered attendees at the 2020 Annual Meeting will receive a name badge as part of their on-site registration package. These badges have a barcode on the back that is embedded with the attendee’s name, mailing address, fax number and email address. Delegates may choose to scan their badges in the Exhibit Hall and give their contact information to specific exhibitors.

Please note: When you allow an exhibitor/sponsor to scan your badge, you are authorizing them to contact you and send you materials via postal mail and/or email. The AAAAI cannot be responsible for the use of your contact information once you have given it to an exhibitor/sponsor.

Nursing/Lactation Room
Convention Center, 100 Level and 200 Level
There are dedicated rooms available for nursing mothers located on the 100 Level at Broad and Arch Streets, and on the 200 Level between Hall B and the gift shop.

Photography
Personal photography is allowed within the educational sessions and the Poster Hall, unless the speaker or poster presenter explicitly states otherwise. A camera icon with a black circle and slash on posters or slides indicates that picture taking is not allowed. Delegates are also welcome to take photographs at all other AAAAI functions and activities. Please be mindful to turn off your flash during a presentation. A professional photographer will be on site to document the event.

By registering for and taking part in the Annual Meeting, your photo may be taken and used in future promotional materials. If you do not want your photo used, please inform the staff photographer at the time the photograph is taken.

Plenary Q&A
The Plenary Q&A sessions allow attendees to ask questions directly to the plenary faculty and get responses directly from the presenters. Make note of your questions during the plenary sessions and bring them here to get answers from the speakers and moderators in a more casual, intimate setting.

Plenary speakers and moderators will be available to answer your questions at the following times:
Friday, March 13  3:00 to 3:15 pm
Saturday, March 14  9:45 to 10:00 am
Sunday, March 15  9:45 to 10:00 am
Monday, March 16  9:45 to 10:00 am

Poster Hall
Convention Center, 200 Level, Hall D
The poster sessions, featuring presentations of abstracts in thematic groupings, are open Saturday through Monday. Authors will be present with their posters from 9:45 to 10:45 am daily.

Poster Hall Hours
Saturday, March 14  7:00 am to 6:00 pm
Sunday, March 15  7:00 am to 6:00 pm
Monday, March 16  7:00 am to 2:00 pm

Practice Management Hub
Convention Center, 100 Level, Broad Street Atrium
Visit the Practice Management Hub to obtain guidance about office operations, coding and promoting your practice. See the mobile app for details.
Press Room
Convention Center, 100 Level, Room 124
Members of the press representing print, broadcast and electronic consumer media, as well as healthcare trade media, are invited to attend the 2020 Annual Meeting if they have pre-registered at annualmeeting.aaaai.org. To claim a press pass on site, journalists must provide media identification or a business card issued by their news organization. Freelance writers must provide a letter of assignment on a news organization letterhead or bylined articles from a recognized news organization. Press passes will only be issued to journalists representing the editorial staff of print, broadcast or internet media. Journalists must display their press passes at all times while attending the meeting or covering meeting-sponsored events.

The AAAAI does not issue press passes to: a publication’s advertising, marketing, public relations or sales representatives; publishers, editors or reporters from manufacturers’ in-house or promotional publications; public relations staff of exhibitors or educational institutions; writers creating analyses or reports sold as a commodity to customers; or other individuals who are not actually reporting on the meeting or on behalf of a specific media outlet. Exhibitors may not register as press.

Quiet Reflection Room
Convention Center, 300 Level, Room 308
This room has been designated for prayer and meditation and is available for use at the Annual Meeting during regular hours of operation.

Recording of Sessions
Many of the scientific sessions will be recorded as part of the Virtual Annual Meeting and are available for purchase on site at the Registration Desk and after the meeting at the AAAAI Continuing Education Center at education.aaaai.org. Individual recording of educational sessions is not permitted.

Registration Desk
Convention Center, 100 Level, Broad Street Atrium
Visit the Registration Desk to pick up your name badge, tickets and registration bag. You can also purchase tickets, register on site and receive your CME/CE or attendance certificates.

Registration Desk Hours
Thursday, March 12 6:00 am to 7:00 pm
Friday, March 13 6:30 am to 5:00 pm
Saturday, March 14 6:30 am to 5:00 pm
Sunday, March 15 6:30 am to 5:00 pm
Monday, March 16 6:30 am to 4:00 pm

Ribbons
Ribbons are available at a kiosk located near the Registration Desk.

Smoking
Smoking is prohibited at all 2020 Annual Meeting sessions and events.

Speaker Resource Room
Convention Center, 100 Level, Room 125
All speakers are asked to report to the Speaker Resource Room immediately upon arrival in Philadelphia to deliver their presentation materials. Computers and technical support are available for speakers to use in this room. Individuals will receive their speaker ribbons in the Speaker Resource Room.

Speaker Resource Room Hours
Wednesday, March 11 4:00 to 7:00 pm
Thursday, March 12 6:30 am to 6:30 pm
Friday, March 13 6:30 am to 6:30 pm
Saturday, March 14 6:30 am to 6:30 pm
Sunday, March 15 6:30 am to 6:30 pm
Monday, March 16 6:30 am to 4:30 pm

Special Dietary Requirements
If items on the daily, pre-arranged menu do not meet your special dietary requirements (e.g., allergies, kosher) an alternative option can be made available. Please notify an AAAAI staff member at the Registration Desk to ensure arrangements are made. Special arrangements require at least 24 hours advance notice. Vegetarian options will be available at all functions with food. If you are a vegetarian, please inform the server assigned to the room at the beginning of the session that you would like a vegetarian selection.

Friend of the President Ribbon
Thank AAAAI President David M. Lang, MD, FAAAAI for his year of service to the AAAAI with the $100 purchase of a Friend of the President Ribbon.

This ribbon honors Dr. Lang and directly supports the mission of the AAAAI Foundation: funding research that leads to the prevention and cure of asthma and allergic and immunologic disease.

Purchase or pick up your ribbon at the AAAAI Foundation booth located in the Pennsylvania Convention Center, 100 Level, Broad Street Atrium.
Meeting Information

Ticket Exchange
Tickets to available sessions will be sold at the on-site registration desk. Please check the session monitor for available sessions. To exchange or cancel a session ticket, please bring the ticket to the Assisted Registration Desk no less than 30 minutes prior to the start of the session. Refunds for returned tickets will be mailed from the AAAAI executive office after the meeting.

Training Stations
Convention Center, 200 Level, Hall D
Saturday, March 14 and Sunday, March 15, 12:00 to 2:00 pm
Training stations provide Annual Meeting delegates the opportunity to get hands-on practice with allergy/immunology devices and procedures as well as personalized instruction from peers with appropriate expertise. Participation is on a first-come, first-served basis and is open to any registered delegate. Participants can earn continuing education credit for time spent in the training stations. The 2020 stations will feature five options:

Saturday 2401 & Sunday 3401: Oral Food Challenges I & II
This session will address the preparation for and administration of oral food challenges (OFCs) in the office setting. The session will include hands-on demonstrations and training, and will also allow participants to ask their personal and individualized questions. The majority of the session faculty have participated in the writing of the OFC work group report update and will be prepared to discuss details associated with administering an OFC in the office setting. Specific stations will be set up to focus the training on the following topic areas: 1. Traditional OFCs: will cover the basics regarding food options for milk, egg, wheat, peanut and sesame OFC set-up, portion administration, etc. 2. Baked milk and baked egg OFCs: will provide examples of the products used, details to share with patients regarding recipes and thoroughness of cooking, amount of egg or milk in recipe, age-appropriate portion sizes and division of the portion for the OFC. 3. Tree nut OFCs: will provide examples demonstrating the types of products that may be used for tree nut OFCs and hands-on examples of the varying protein content amongst different tree nut products. 4. Infant OFCs: will demonstrate how to prepare a peanut OFC for an infant, products to be used, techniques for feeding infants, how to identify a positive challenge, what to do if the infant refuses to eat, etc.

Saturday 2402: Patch Testing: Basics and Beyond
This session is designed for learners who are interested in and would like to begin incorporating patch testing into their practice. In addition, we’ll offer more advanced concepts for those already familiar with patch testing. The program aims to provide learners with new insights and greater confidence in more difficult patch testing circumstances/patients.

Saturday 2403: Asthma Medication Delivery Devices: How to Use Them and How to Teach Them
Many practices educate patients about asthma medication delivery devices but lack standard demonstration techniques for teaching device use. This station will allow participants to learn about proper techniques for device use and best ways to teach patients to use them.

Sunday 3402: Subcutaneous Immunotherapy: How to Select Your Allergens and Prepare Your Vials
This session will address the preparation and administration of subcutaneous immunotherapy (SCIT) in the office setting. Session faculty will discuss the administration of SCIT to different age groups, as well as more practical aspects including office preparation and billing. The session will include hands-on demonstrations and training, and will also allow participants to ask specific questions.

Sunday 3403: House Calls in the 21st Century: Making Telemedicine Work in Your Practice
At this training station, participants will practice telemedicine. Topics include: 1. Introduction to telemedicine: What is it, and how can it help practicing allergist/immunologists optimize patient care and practice operations? 2. Asynchronous versus synchronous telemedicine: How to implement these different types of telemedicine into your private practice. 3. Billing, coding and reimbursement: How to ensure you get paid for your telemedicine visits.

Tweet Up
Saturday, March 14, 5:00 to 6:00 pm
McGillin’s, 1310 Drury Street, Philadelphia, PA 19107
Are you interested in Twitter and social media? Do you use social media to promote your practice or other allergy/immunology topics? Join others who share your interest at the Tweet Up.

Virtual Annual Meeting Recordings
Pre-purchase the 2020 Virtual Annual Meeting at the on-site Registration Desk located in the Convention Center, 100 Level, Broad Street Atrium. The Virtual Annual Meeting will be available online via streaming and MP4 file downloads. MP4 files will allow you to download the content and access it without being connected to the internet. The recordings include presentation slides along with video and audio for the Plenary and Keynote sessions, and presentation slides synchronized with the audio recordings for selected courses, symposia, Interest Section Forums, workshops, pro/con debates and allied health sessions. Sessions included in the Virtual Annual Meeting are indicated with a " icon in this program.
Meeting Information

Wellness Sessions

Marriott, Level 4, Franklin 1
Start your day off right with a morning rise and shine yoga flow session.

Friday, March 13 6:00 to 7:00 am
Saturday, March 14 6:00 to 7:00 am
Sunday, March 15 6:00 to 7:00 am
Monday, March 16 6:00 to 7:00 am

Convention Center, 300 Level, Room 307
Take a moment to recharge your mind and body with these wellness sessions.

Friday, March 13
Breathe Your Way to Ease 11:30 am to 12:00 pm

Saturday, March 14
Breathe to Better Focus 10:00 to 10:30 am
Chair Yoga for Shoulders and Neck 12:00 to 12:30 pm

Sunday, March 15
Breathe Your Way to Ease 10:00 to 10:30 am
Chair Yoga for Hips and Thighs 12:00 to 12:30 pm
Breathe to Better Focus 1:30 to 2:00 pm

WiFi
Complimentary WiFi access is available in all meeting rooms at the Convention Center and the Marriott.

Convention Center
Sponsored by Regeneron and Sanofi Genzyme.
Wireless Network: dupilumab
Password: visitbooth1103
Password is case sensitive.

Marriott
Sponsored by AstraZeneca.
Wireless Network: AAAAIMarriott
Password: Fasenra
Password is case sensitive.

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Wireless Network: AAAAIMarriott
Password: Fasenra
Password is case sensitive.
14.110 (2018 Clarivate impact factor)

No publication or submission fees
No charges for color illustrations

Visit the Journals’ Booth at the Member Resource Center to learn more about our author benefits and meet the staff
Looking for more about food allergy?

- Diagnosis
- Treatment
- Specific Syndromes
- Current Research

Visit education.aaaaai.org/food-allergy-education
AAAIA Annual Business Meeting
Monday, March 16, 12:30 to 1:30 pm
Convention Center, 100 Level, Room 108
All AAAAI Fellows and members should attend the annual Business Meeting. Boxed lunches will be provided. No fee. No pre-registration required.

Associates to the AAAAI Breakfast and Business Meeting
Saturday, March 14, 9:00 to 11:00 am
Marriott, Headhouse Tower, Level 3, Independence II

Interest Section Forums
Sunday, March 15, 3:30 to 4:30 pm
AAAIA Fellows and members, as well as other delegates, are invited to attend an Interest Section Forum. Each interest section of the AAAAI will host a separate forum. Fellows and members may designate their interest section affiliation, while non-members may inquire about AAAAI membership opportunities. Continuing education credits are available for these activities. See page 91 for more information.

AAAIA Assembly/Board/Division Committee Meetings (Invitation Only)
If you are a current member of an AAAAI assembly, Board or division committee, please plan to attend your committee meeting. Committee meetings are open to current AAAAI members only. All members of these committees must be named by the AAAAI President-Elect. If you are an AAAAI member and you are interested in becoming a member of any of these committees, please contact the AAAAI executive office at (414) 272-6071 or info@aaaai.org.

A/I Division Directors Committee
Sunday, March 15, 12:30 to 1:30 pm
Convention Center, 100 Level, Room 103A

Advocacy Committee
Saturday, March 14, 11:00 am to 12:00 pm
Convention Center, 100 Level, Room 103A

Allied Health Education Committee
Sunday, March 15, 2:00 to 3:00 pm
Marriott, Level 4, Room 411

Allied Health Professionals Assembly Business Meeting and Oral Abstract Session
Saturday, March 14, 12:15 to 1:45 pm
Convention Center, 100 Level, Room 108

Allied Health Professionals Assembly Leadership Meeting
Sunday, March 15, 3:00 to 4:00 pm
Marriott, Level 4, Room 411

Annual Meeting Awards Committee
Monday, March 16, 8:00 to 9:30 am
Convention Center, 100 Level, Room 107A

Annual Meeting Program Committee
Monday, March 16, 10:00 am to 12:00 pm
Convention Center, 100 Level, Room 105

Clinical Rotation Curriculum Committee
Saturday, March 14, 7:00 to 8:00 am
Convention Center, Headhouse Tower, Level 3, Liberty C

CME/MOC Committee (Invitation Only)
Saturday, March 14, 5:00 to 6:00 pm
Marriott, Level 4, Franklin 13

New Allergist/Immunologist Assembly (NAIA) Business Meeting and Reception
Saturday, March 14, 4:45 to 6:15 pm
Marriott, Level 4, Franklin 8

Program Directors Assembly (PDA) Business Meeting and Forum
Friday, March 13, 11:30 am to 1:15 pm
Marriott, Headhouse Tower, Level 3, Liberty Ballroom

Federation of RSLAIS Assembly Forum, Business Meeting and Reception
Friday, March 13, 4:45 to 6:15 pm
Convention Center, 100 Level, Room 103B

Core Curriculum, Education & Residency Review Subcommittee
Saturday, March 14, 12:30 to 1:30 pm
Marriott, Level 4, Franklin 13

Federation of RSLAIS Governors Meeting
Saturday, March 14, 2:00 to 3:15 pm
Marriott, Level 4, Room 411

Fellows-In-Training Committee
Saturday, March 14, 7:00 to 8:00 am
Convention Center, 100 Level, Room 105

Grant Review Committee
Sunday, March 15, 8:00 to 9:00 am
Convention Center, 100 Level, Room 120C

Interest Section Coordinating Committee (ISCC)
Saturday, March 14, 10:45 to 11:45 am
Convention Center, 100 Level, Room 112

In-Training Examination Committee
Sunday, March 15, 12:30 to 2:30 pm
Marriott, Headhouse Tower, Level 3, Independence III

Measures Stewardship Committee
Saturday, March 14, 7:00 to 8:00 am
Marriott, Level 4, Room 411

New Allergist/Immunologist Assembly Leadership Team Meeting
Sunday, March 15, 12:30 to 1:45 pm
Convention Center, 100 Level, Room 112

Office of Medical Education Committee (Invitation Only)
Sunday, March 15, 7:00 to 8:00 am
Marriott, Headhouse Tower, Level 3, Liberty B
Business and Committee Meetings

Office of Practice Management  
Sunday, March 15, 12:30 to 1:30 pm  
Marriott, Headhouse Tower, Level 3, Independence I

Office of School-Based Management of Asthma  
Saturday, March 14, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 120C

Practice Management Committee  
Sunday, March 15, 12:30 to 1:30 pm  
Marriott, Headhouse Tower, Level 3, Liberty A

Program Directors Assembly Executive Committee  
Sunday, March 15, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 107A

Veteran’s Health Administration Allergists Committee  
Saturday, March 14, 9:45 to 10:45 am  
Marriott, Level 4, Franklin 13

AAAAI Interest Section Committee Meetings

Committee meetings are held during the Annual Meeting for the purpose of conducting AAAAI related business. If you are a current member of an interest section committee, please plan to attend your committee meeting. If you are an AAAAI member and you are interested in joining an interest section committee, please attend the meeting and notify the chair that you are interested in joining. For more information on AAAAI committees, please contact the AAAAI executive office at (414) 272-6071 or info@aaaai.org.

Adverse Reactions to Drugs, Biologicals & Latex Committee  
Saturday, March 14, 12:30 to 1:30 pm  
Convention Center, 100 Level, Room 105

Adverse Reactions to Foods Committee  
Saturday, March 14, 6:15 to 7:45 am  
Marriott, Level 5, Grand Ballroom Salon B

Aerobiology Committee  
Sunday, March 15, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 104

Allergic Fungal Respiratory Diseases Committee  
Sunday, March 15, 6:45 to 7:45 am  
Marriott, Level 4, Franklin 13

Allergic Skin Diseases Committee  
Friday, March 13, 4:30 to 5:30 pm  
Convention Center, 100 Level, Room 104

Anaphylaxis Committee  
Sunday, March 15, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 105

Asthma & Allergic Diseases in Older Adults Committee  
Saturday, March 14, 12:30 to 1:30 pm  
Marriott, Level 4, Room 411

Asthma, Cough, Diagnosis and Treatment Committee  
Saturday, March 14, 12:30 to 1:30 pm  
Convention Center, 100 Level, Room 104

Autoimmunity and Altered Immune Response Committee  
Sunday, March 15, 12:30 to 1:30 pm  
Convention Center, 100 Level, Room 120C

Cells and Mediators of Allergic Inflammation Committee  
Sunday, March 15, 12:30 to 1:30 pm  
Convention Center, 100 Level, Room 105

Committee on the Underserved  
Saturday, March 14, 1:45 to 2:45 pm  
Convention Center, 100 Level, Room 103A

Environmental Exposure and Respiratory Health Committee  
Saturday, March 14, 12:30 to 1:30 pm  
Marriott, Headhouse Tower, Level 3, Liberty C

Eosinophilic Gastrointestinal Disorders Committee  
Saturday, March 14, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 112

Genetics, Molecular Biology and Epidemiology Committee  
Saturday, March 14, 7:00 to 8:00 am  
Marriott, Headhouse Tower, Level 3, Liberty B

Health Informatics, Technology and Education Committee  
Saturday, March 14, 12:30 to 1:30 pm  
Convention Center, 100 Level, Room 103B

Immunotherapy, Allergen Standardization and Allergy Diagnostics Committee  
Sunday, March 15, 6:45 to 8:00 am  
Convention Center, 100 Level, Room 103B

Integrative Medicine Committee  
Saturday, March 14, 2:00 to 3:00 pm  
Convention Center, 100 Level, Room 104

Mast Cells Disorders Committee  
Sunday, March 15, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 112

Microbes in Allergy and Asthma Committee  
Monday, March 16, 7:00 to 8:00 am  
Convention Center, 100 Level, Room 120C

Occupational Diseases Committee  
Saturday, March 14, 7:00 to 8:00 am  
Marriott, Level 4, Franklin 13

Practice, Diagnostics and Therapeutics Committee  
Sunday, March 15, 7:00 to 8:00 am  
Marriott, Headhouse Tower, Level 3, Independence III

Primary Immune Deficiency Committee  
Friday, March 13, 12:00 to 1:00 pm  
Convention Center, 100 Level, Room 103A

Quality, Adherence and Outcomes Committee  
Saturday, March 14, 2:00 to 3:00 pm  
Convention Center, 100 Level, Room 105

Rhinitis, Rhinosinusitis and Ocular Allergy Committee  
Saturday, March 14, 6:45 to 7:45 am  
Convention Center, 100 Level, Room 104

Sports, Exercise and Fitness Committee  
Sunday, March 15, 7:00 to 8:00 am  
Convention Center, Headhouse Tower, Level 3, Independence II

Vaccines Committee  
Friday, March 13, 5:30 to 6:30 pm  
Marriott, Level 4, Room 405
Other Meetings and Events

Other AAAAI Meetings (Invitation Only)

AAAAI Foundation Council Meeting
Monday, March 16, 10:00 to 11:30 am
Convention Center, 100 Level, Room 120C

AAAAI Leadership Institute Course
Friday, March 13, 8:00 am to 12:00 pm
Marriott, Level 5, Grand Ballroom Salon D

AAAAI Leadership Institute Mentorship Program Lunch
Friday, March 13, 12:00 to 1:00 pm
Marriott, Level 5, Grand Ballroom Salon D

Allied Health Wine and Cheese Reception
Sponsored by Aimmune Therapeutics.
Friday, March 13, 5:45 to 7:00 pm
Convention Center, 100 Level, Room 108

Basic Science Networking Reception
Friday, March 13, 5:30 to 6:30 pm
Marriott, Level 4, Franklin 10

Chrysalis Project Participant Registration
Thursday, March 12, 6:00 to 7:00 pm
Convention Center, 100 Level, Room 104

Chrysalis Project Program
Friday, March 13, 7:30 am to 1:15 pm
Marriott, Level 5, Grand Ballroom Salon E

Chrysalis Project Reception
Saturday, March 14, 6:00 to 7:00 pm
Marriott, Level 4, Franklin 4

Faculty Development Program Reunion Breakfast
Sunday, March 15, 6:00 to 8:00 am
Convention Center, 100 Level, Room 103A

FIT Reception
Sponsored by AstraZeneca.
Friday, March 13, 5:00 to 6:00 pm
Marriott, Level 4, Franklin 4

FIT Symposium
Friday, March 13, 7:00 am to 1:15 pm
Marriott, Level 5, Grand Ballroom Salon B

JACI Associate Editors Meeting
Sunday, March 15, 12:30 to 1:45 pm
Marriott, Headhouse Tower, Level 3, Liberty B

JACI Editorial Board Meeting
Friday, March 13, 12:00 to 1:15 pm
Convention Center, 100 Level, Room 103B

JACI International Advisory Board
Sunday, March 15, 6:30 to 7:45 am
Marriott, Level 4, Room 411

JACI Journals’ Reviewers Forum and Reception
Sunday, March 15, 4:45 to 6:30 pm
Convention Center, 100 Level, Room 103B

JACI: In Practice Editorial Board Meeting
Saturday, March 14, 7:00 to 8:00 am
Convention Center, 100 Level, Room 103A

National Allergy Bureau (NAB) Counters Meeting and Reception
Friday, March 13, 6:00 to 7:15 pm
Marriott, Level 4, Room 414

Tweet Up
Friday, March 13, 5:00 to 6:00 pm
McGillin’s, 1310 Drury Street, Philadelphia, PA 19107

Other Meetings and Events

Allergists for Israel Board Meeting
Sunday, March 13, 4:00 to 5:00 pm
Marriott, Headhouse Tower, Level 3, Liberty A

Allergists for Israel Religious Service
Friday, March 13, 4:30 to 5:30 pm
Marriott, Level 4, Franklin 8

Allergists for Israel Religious Service
Saturday, March 14, 6:00 to 9:00 am
Marriott, Headhouse Tower, Level 3, Independence I

Allergists for Israel Religious Service
Saturday, March 14, 5:00 to 8:30 pm
Marriott, Level 4, Franklin 12

Allergists for Israel Religious Service
Sunday, March 15, 6:00 to 8:00 am
Marriott, Headhouse Tower, Level 3, Independence I

Allergists for Israel Religious Service
Monday, March 16, 6:00 to 8:30 am
Marriott, Headhouse Tower, Level 3, Independence I

Allergists for Israel Welcome Kiddush Reception
Friday, March 13, 6:00 to 10:00 pm
Marriott, Level 4, Franklin 2

American Association of Allergists and Immunologists of Indian Origin Educational Meeting
Friday, March 13, 6:30 to 9:30 pm
Marriott, Headhouse Tower, Level 3, Independence Ballroom

Cincinnati Children’s Hospital / University of Cincinnati Annual Reception
Sunday, March 15, 9:00 to 11:00 pm
Marriott, Level 4, Franklin 11

National Jewish Health Fellow and Faculty Reunion
Sunday, March 15, 9:00 to 11:00 pm
Marriott, Level 4, Franklin 13
Non-CME Educational Programs

Thursday

**Raising Treatment Expectations in HAE Through Prevention With Proven Efficacy**

Thursday, March 12, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon H  
**Sponsored by Takeda.**

Join us for a dynamic presentation focused on raising treatment expectations through prevention with proven efficacy for our patients living with hereditary angioedema (HAE). Expert faculty will guide you through new clinical data from our open-label extension study. We will discuss our proven safety and efficacy, as well as the impact on treatment expectations across the HAE community. Additionally, thought leaders will be joined by a patient who will take you on a journey from diagnosis to what it means to be a patient with HAE today.  
**Complimentary dinner and drinks will be served.**

Friday

**Type 2 Inflammation and Role of Key Mediators in the Clinical Hallmarks of Uncontrolled Severe Asthma**

Friday, March 13, 6:00 to 8:00 am  
Marriott, Level 5, Grand Ballroom Salon H  
**Sponsored by Regeneron and Sanofi Genzyme.**

Our understanding of asthma heterogeneity and the role of Type 2 inflammation in multiple phenotypes has evolved. While ongoing and future research will continue to refine decision-making for patients, we have an immediate imperative to understand Type 2 inflammation and integrate guideline recommendations for its assessment in patients with uncontrolled, severe disease. This program will review current understanding of Type 2 inflammation, explore data further elucidating the role key cytokines play in the clinical hallmarks of uncontrolled severe asthma, and discuss connections to clinical measures of control in these patients.

**From Evidence to Practice: The First and Only FDA-Approved Treatment for Peanut Allergy**

Friday, March 13, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon E  
**Sponsored by Aimmune Therapeutics.**

Please check the Annual Meeting App for program information.

**Evidence and Insights for Using a Biologic to Manage Severe Eosinophilic Asthma**

Friday, March 13, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon B  
**Sponsored by GSK.**

Faculty: Ellen Sher, MD; Joseph Spahn, MD; Donna Carstens, MD  
Join us for a case-based symposium discussing advances in severe eosinophilic asthma. Through clinically focused dialogue, an expert panel of physicians will discuss approaches to help identify and manage patients with severe eosinophilic asthma. Clinical evidence supporting the use of a targeted biologic therapy will be reviewed, including data from long-term and real-world studies. In addition, the panel will discuss the role of shared decision-making and provide practical insights to help inform management of patients with severe eosinophilic asthma. Interactivity with the panel is encouraged through live Q&A at the conclusion of the program.

Follow the AAAAI Annual Meeting on Twitter

While you’re in Philadelphia, use #AAAAI20 when you tweet to participate in onsite conversations and share what you’re learning with your colleagues.
Non-CME Educational Programs (continued)

**AIRING IT OUT: A Case-Based Conversation on Managing Asthma and Chronic Rhinosinusitis With Nasal Polyps**

Friday, March 13, 6:30 to 8:30 pm  
(Registration at 6:00 pm) Dinner provided  
Marriott, Level 5, Grand Ballroom Salon H  
Supported by an educational grant from Sanofi Genzyme and Regeneron Pharmaceuticals, and provided by Integritas Communications.  
Faculty: Joseph K. Han, MD; John J. Oppenheimer, MD; Reynold A. Panettieri, Jr, MD  
This Case-in-Point™ educational program focuses on the management of moderate-to-severe asthma and chronic rhinosinusitis with nasal polyps (CRSwNP). Each segment of the program will open with a brief multimedia presentation of a clinical case, highlighting the patient’s unique past medical history, current management challenges, and persistent, daily burdens. Expert faculty will guide learners through each case, sharing relevant guideline recommendations, published data, and clinical insights. Before each case discussion concludes, attendees will have an opportunity to directly interact with the faculty panel through a brief Q&A session. Please join us for this informative and engaging program!  
Register now: www.ExchangeCME.com/2020AsthmaPHL

**Optimizing Patient Care in PI Through Shared Decision-Making**

Friday, March 13, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon K  
Sponsored by Takeda. No CME/CE credit can be claimed.  
Faculty: Richard Wasserman, MD, PhD, and TBD  
Speaker: TBD (Patient With PI)  
Please join us for an interactive session to learn more about the impact of shared decision-making to optimize your patients’ care at diagnosis and at critical points and stages throughout their lives. Our expert faculty and a patient with PI will discuss the importance of those face-to-face moments of care when determining an individualized treatment plan that fits your patients’ unique needs and goals. Learn how evolving the patient and provider dialogue in your practice can help address the burden of care experienced by patients with PI and their caregivers now and in the future.  
Complimentary dinner will be included (state restrictions and reporting obligations apply).

**Saturday**

**Identification, Treatment and Assessments in Eosinophilic Asthma**

Saturday, March 14, 6:00 to 8:00 am  
Marriott, Level 5, Grand Ballroom Salon E  
Sponsored by GSK.  
Despite the availability of new therapeutic approaches, severe asthma continues to be a burden for patients, their relatives and the healthcare system. There is a need to continuously update the criteria healthcare professionals use to identify severe asthma in children and adults in order to diminish the risk of exacerbations and lung function decline as well as the risk of adverse events due to the repetitive bursts or continued use of systemic steroids. This symposium will aim at tackling such questions with the most recent data from the literature. New trends in biomarkers, therapies and monitoring techniques will be discussed.

**Type 2 Inflammation and IL-4/IL-13 in Asthma, CRSwNP, and AERD**

Saturday, March 14, 6:00 to 8:00 am  
Marriott, Level 5, Grand Ballroom Salon H  
Sponsored by Sanofi Genzyme and Regeneron.  
Hear experts review Type 2 inflammation as a broad, underlying disease process that contributes to frequently coexisting conditions including allergic, eosinophilic, and oral corticosteroid-dependent asthma, chronic rhinosinusitis with nasal polyposis (CRSwNP), and aspirin-exacerbated respiratory disease (AERD). Our experts will review current literature on IL-4/IL-13, a critical component of Type 2 inflammation, which contribute to epithelial barrier dysfunction and the pathobiology of airway diseases. In addition, suggestions for identifying Type 2 inflammation in your patients and the implications of coexisting Type 2 inflammatory diseases, such as greater disease severity and worse disease control, will be reviewed.

**Rethinking the Management of Allergic Asthma: A Case-Based, Interactive Approach to Diagnosis and Treatment**

Saturday, March 14, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon K  
Sponsored by Genentech.  
Join us for an interactive symposium focusing on the diagnosis and management of allergic asthma. In this innovative program, attendees will answer questions about hypothetical patient case studies to explore the complexities of diagnosing, identifying, and treating appropriate patients with allergic asthma. In addition, our clinical experts will review the efficacy and safety profile of an FDA-approved biologic for the treatment of allergic asthma. This engaging program will challenge audience perceptions on choosing appropriate biologic therapies for patients in clinical practice.
Non-CME Educational Programs (continued)

**Exploring the Role of Eosinophils and IL-5 Inhibitors in Severe Asthma and Associated Conditions**

Saturday, March 14, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon B  
This educational activity is supported by an educational grant from GlaxoSmithKline.  
Faculty: Michael E. Wechsler, MD, MMS; Bradley E. Chipps, MD; Monica Kraft, MD  
Until recently, treatment options for severe asthma with an eosinophilic phenotype, eosinophilic granulomatosis with polyangiitis (EGPA), and hyper eosinophilic syndrome (HES) were limited mostly to immunosuppression with oral corticosteroids (OCS) or other highly toxic systemic agents. An expanding understanding of the pathophysiology of these diseases has led to the identification of actionable therapeutic targets and more selective and better tolerated treatments for eosinophil reduction. This activity will employ an interactive patient simulation to address these issues and review strategies for improving recognition of the phenotypes of severe eosinophilic diseases affecting the lungs and to help clinicians better navigate available treatments.

Register Now: https://integrityce.com/aaaai

**Insights on Chronic Cough**

Saturday, March 14, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon E  
Sponsored by Merck & Co., Inc.  
Chronic cough is often associated with underlying conditions, such as asthma, gastroesophageal reflux disease, nonasthmatic eosinophilic bronchitis, and upper-airway cough syndrome. In some patients with chronic cough, treatment of these underlying conditions does not resolve the cough (Refractory Chronic Cough, RCC), or none of these underlying conditions are present (Unexplained Chronic Cough, UCC). Please join Merck for this non-CME program to learn more about Chronic Cough. Topics will include:

- The burden of disease
- Classifications and clinical assessment
- The mechanism of disease
- Unmet needs in the management of patients

**DUPIXENT® (dupilumab) Product Presentation**

Saturday, March 14, 6:30 to 8:30 pm  
Marriott, Level 5, Grand Ballroom Salon H  
Sponsored by Regeneron and Sanofi Genzyme.  
Come learn about clinical efficacy, safety information, MOA, dosing and administration, and how DUPIXENT may help your appropriate patients.

**Nasal Polyposis: Management in the Era of Personalized Treatment**

Saturday, March 14, 8:30 to 10:30 pm  
Marriott, Headhouse Tower, Level 3, Liberty Ballroom  
This activity is provided by PRIME Education. There is no fee to participate. This activity is supported by an educational grant from Genentech.  
The management of chronic rhinosinusitis with nasal polyyps (CRSwNP) is transforming rapidly, with advances in the understanding of disease phenotypes and endotypes, as well as the emergence of studies delving into the use of biologics. Join renowned experts as they provide:

- Perspectives on new research that is unraveling the pathophysiology of CRSwNP  
- Critical analyses of the evolving role of biologic therapies in the personalized treatment of this disease  
- Insights into the burden of CRSwNP and unmet treatment needs

**Eosinophils in Health, Sickness and in Severe Asthma**

Sunday, March 15, 6:00 to 8:00 am  
Marriott, Level 5, Grand Ballroom Salon E  
Sponsored by AstraZeneca.  
Please join a panel of experts who will review the role of eosinophils in severe asthma and explore known and emerging science in eosinophil biology. This interactive presentation will also highlight the impact and burden of oral corticosteroid exposure in severe asthma and review the importance of appropriate use in the management of severe asthma.

**A Virtual Reality View: New Approaches to the Diagnosis and Treatment of Pediatric and Adolescent Patients with Moderate-to-Severe Atopic Dermatitis**

Sunday, March 15, 6:45 to 8:00 am  
Marriott, Level 5, Grand Ballroom Salon H  
Supported by an educational grant from Sanofi Genzyme and Regeneron Pharmaceuticals, Inc.  
While guidelines regarding the management of AD in children have been published, variability persists in practice. Treatment inconsistencies and the chronic and relapsing nature of AD can lead to frustration for patients, family, and caregivers when managing AD. This program will focus on providing AD caregivers an update on recent pathophysiological findings that drive new therapeutic targets; reviewing severity and diagnosis of AD; and discussing the clinical profiles of existing and emerging agents, with focus on treatment individualization.

Virtual reality headsets will be provided to all attendees for viewing this presentation only.

Register now: www.MLG-AD.com  
Registration begins at 6:45 am  
Food and beverage will be served
Non-CME Educational Programs (continued)

**Heterogeneity of Severe Eosinophilic Asthma**
Sunday, March 15, 6:30 to 8:30 pm
Marriott, Level 5, Grand Ballroom Salon K
Sponsored by AstraZeneca.
Please join a panel of experts who will explore a heterogeneous severe eosinophilic asthma patient population. During this interactive presentation, the experts will review characteristics, treatment goals, and data to help identify severe eosinophilic asthma and share some of the latest evidence on patient outcomes.

**Influenza: Reducing Complications in High-risk Patients Through Advanced Treatment Options**
Sunday, March 15, 6:30 to 8:30 pm
Marriott, Level 5, Grand Ballroom Salon E
This non-CME educational program is provided by Vindico Medical Education.
This activity is supported by an educational grant from Genentech, Inc.
In this Non-CME educational program, expert faculty will discuss strategies for incorporating the latest information regarding the diagnosis and treatment of influenza into practice. Using challenging case-based examples, faculty will provide guidance on selecting the most appropriate therapeutic regimen to reduce morbidity and mortality in patients with influenza who are at high risk for complications.
Registration and Dinner: 6:30 pm to 7:00 pm
Program: 7:00 pm to 8:30 pm
Registration Website: VindicoCME31520.eventbrite.com

**Eosinophilic Granulomatosis With Polyangiitis (EGPA): Pathogenesis, Diagnosis, and Management**
Sunday, March 15, 6:30 to 8:30 pm
Marriott, Level 5, Grand Ballroom Salon B
Sponsored by GSK.
Eosinophilic Granulomatosis with Polyangiitis (EGPA), formerly known as Churg-Strauss syndrome, is a rare vasculitis that often involves the respiratory tract, affects small to medium vessels, and is associated with asthma and eosinophilia. EGPA is difficult to diagnose and manage due to its rarity and complexity. Early recognition is critical to avoid organ damage. This educational session will review the pathogenesis, clinical manifestations, classification criteria, diagnosis, and management of EGPA.

**DUPIXENT® (dupilumab) and the Role of Type 2 Inflammation**
Sunday, March 15, 6:30 to 8:30 pm
Marriott, Level 5, Grand Ballroom Salon H
Sponsored by Sanofi Genzyme and Regeneron.
Disease manifestations that often coexist due to overlapping pathobiological mechanisms are associated with Type 2 inflammation. Within this interactive, case-based discussion, data reported from 3 distinct clinical development programs will be reviewed.

**Monday**
These programs are not sponsored or programmed by the AAAAI.

**Uncontrolled Asthma: Changing the Patient Experience**
Monday, March 16, 6:00 to 8:00 am
Marriott, Level 5, Grand Ballroom Salon E
Sponsored by GSK.
Speakers: Patient (TBD), Geoffrey Chupp, MD and Ujwala Kaza, MD
Moderator: Anne Marie Ditto, MD
An important goal of asthma treatment is to achieve and maintain asthma control; however, uncontrolled asthma still continues to be a burden for patients, their care team, and the healthcare system. Patients with asthma who are uncontrolled may underestimate the severity of their asthma by tolerating their symptoms and accepting the severe impact of their disease on their quality of life. There is a need for HCPs and patients to share decision making: continuously evaluating treatment options that will maximize lung function, minimize symptoms and risk of exacerbations while decreasing the risk of adverse events. This symposium will aim to: 1) provide real-time patient insight into the challenges of coping with uncontrolled asthma, 2) review the stepwise approach for asthma management from the 2019 GINA guidelines, and 3) identify ways to customize management of uncontrolled asthma by pairing the right medications with the right patients.

**Asthma through the Ages: Personalized Management for Difficult-to-Treat Children, Adolescents, and Adults**
Monday, March 16, 6:00 to 8:00 am
Marriott, Level 5, Grand Ballroom Salon B
This non-CME activity is provided by Physicians’ Education Resource and supported by an educational grant from Genentech, Inc.
2020 AAAAI FOUNDATION BENEFIT
SATURDAY, MARCH 14 | PHILADELPHIA
PLEASE TOUCH MUSEUM® AT MEMORIAL HALL

JOIN US FOR AN EVENING OF FINE FOOD, GREAT MUSIC AND THE PRESENTATION OF OUR 2020 FACULTY DEVELOPMENT AWARDS.

7:00 PM - 10:00 PM
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TICKET PRICES:
$300 - PATRON
$3,000 - TABLE OF 10
$200 - NAIA/ALLIED HEALTH
$125 - STUDENT

PURCHASE OR PICK UP TICKETS AT THE AAAAI FOUNDATION BOOTH LOCATED IN THE PENNSYLVANIA CONVENTION CENTER, 100 LEVEL, BROAD STREET ATRIUM.
Only $50 to register on site
Visit the Foundation Booth, Pennsylvania Convention Center, 100 Level, Broad Street Atrium.

Sunday, March 15, 2020
Starting Line @ The Navy Yard
Race Start: 5:30 pm
FREE round trip transportation between Pennsylvania Convention Center and The Navy Yard.

Second Annual Team Competition
Will YOUR team win a trophy and bragging rights?
Register your four-person team on site at the AAAAI Foundation booth.

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VAMPSS — Vaccines and Medications in Pregnancy Surveillance System
Helping asthmatic women deliver healthy babies

Help us learn how asthma and its treatments affect pregnancy outcomes.

The Vaccines and Medications in Pregnancy Surveillance System (VAMPSS) is coordinated by AAAAI and monitors the use and safety of vaccines and medications during pregnancy. Our current focus is the safety of new biologics used to treat severe asthma in pregnant women.

- Asthma Biologics During Pregnancy: Safety and Use
  Saturday, March 14, 4:45 – 6:00 pm, Convention Center, 400 Level, Terrace Ballroom IV
  Moderator: Michael Schatz, MD MS FAAAAI
  Speakers: Christina Chambers, PhD MPH; Vanessa Murphy, PhD; Jennifer Namazy, MD FAAAAI

www.aaaai.org/VAMPSS
Updates in ATOPIC Dermatitis: The Allergist’s Guide to Optimizing Care

Engaging interactive cases that transform learning in a way you have not seen before!

Free CME/CE Available!

Two immersive and personalized cases designed to boost your confidence and skills caring for your patients with atopic dermatitis.

LEARNING OBJECTIVES include:

- Diagnose atopic dermatitis chiefly on the basis of the clinical exam
- Evaluate severity on the basis of provided criteria and evaluation tools
- Address exacerbations appropriately, on the basis of evidence and recommendations
- Select treatment for moderate-to-severe atopic dermatitis on the basis of available data

ACCREDITATION STATEMENT: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACME) through the American Academy of Allergy Asthma and Immunology in collaboration with The France Foundation. The AAAAI is accredited by the ACCME to provide continuing medical education for physicians.

DESIGNATION STATEMENT: The American Academy of Allergy, Asthma & Immunology designates these enduring activity for a maximum of 0.50 AMA PRA Category 1 Credits™ each. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CE DESIGNATION STATEMENT: The American Academy of Allergy, Asthma, & Immunology (AAAAI) is a Provider, approved by the California Board of Registered Nursing, Provider #10704, for up to 0.50 Contact Hours.

CREDIT CLAIMING PERIOD: Credit claiming for this activity will expire at 11:59 pm on May 31, 2021. Requests to claim credit on or after May 31, 2021 will be denied.

AAAAI PRIVACY POLICY: To verify your participation in educational activities, you may be asked to provide your name, contact information, and/or other descriptors. The AAAAI will not release this information to outside entities. It may be used internally to inform you of other AAAAI educational activities. If you wish to have your information excluded from this process, please contact us at cme@aaaai.org.

Access the courses at: education.aaaai.org/ADUpdates


**Associate and Guest Activities**

**Associates (Spouses & Friends) to the AAAAI**

For over 35 years, the Associates (Spouses & Friends) to the AAAAI have provided networking opportunities and events for the spouses and friends to the AAAAI.

Full membership in the Associates is included in each spouse/guest registration fee. Membership includes volunteer opportunities and a chance to participate in the future programming for the Associates.

**Associates (Spouses & Friends) to the AAAAI**

**Hospitality Suite**

Friday, March 13 to Monday, March 16

8:00 am to 12:00 pm

**Marriott, Level 4, Room 404**

Make sure to visit the Associates Hospitality Suite, which is open each morning of the Annual Meeting. A host will be on-hand to assist with restaurant and activity recommendations and to help in making reservations. Stop by, have a cup of coffee, learn more about the city of Philadelphia and what to do, and learn more about how you can get involved in the A/I specialty!

**Associates Breakfast and Business Meeting**

Saturday, March 14, 9:00 to 11:00 am

**Marriott, Headhouse Tower, Level 3, Independence II**

Pre-registration and ticket required.

The Associates Steering Committee would like to invite you to begin your Annual Meeting experience by joining up for the Associates Celebration at the Philadelphia Marriott Downtown. This breakfast event is open only to spouse/guest attendees (those displaying a delegate or exhibitor badge will not be allowed entry). For guests interested in bringing a child under the age of 17, pre-registration and a ticket is required. Children under the age of 6 are complimentary.

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**The AAAAI Foundation Announces the John W. Yunginger, MD, FAAAAI Memorial Lectureship**

This Lectureship will be presented at the 2021 AAAAI Annual Meeting in San Diego.

**2020 Active Fundraising Campaign for Jordan N. Fink, MD, FAAAAI Lectureship**

If you would like to make a contribution to Dr. Fink’s Lectureship, please visit the Foundation Booth in the Pennsylvania Convention Center, 100 Level, Broad Street Atrium or go to aaaaifoundation.org/give

Fundraising campaigns continue for Lectureships and Awards Honoring:

Hugh A. Sampson, MD, FAAAAI
John W. Yunginger, MD, FAAAAI
Annual Meeting Lectureships

****AAAII Lectureships****

**Friday, March 13th**

**The Isil Berat Barlan Memorial Lectureship**
Lecturer: Michael Schatz, MD MS FAAAAI
1701 National Asthma Education and Prevention Program Expert Panel Report on Selected Topics in Asthma Management 2020
Convention Center, 200 Level, Hall C, 3:15 pm

**The Elliot F. Ellis Memorial Lectureship**
Lecturer: Michelle Cloutier, MD
1701 National Asthma Education and Prevention Program Expert Panel Report on Selected Topics in Asthma Management 2020
Convention Center, 200 Level, Hall C, 3:15 pm

**Saturday, March 14th**

**The Robert A. Cooke Memorial Lectureship**
Lecturer: Angelico Mendy, MD PhD
2521 National Institute of Environmental Health Sciences (NIEHS): Exposure to Endocrine Disrupting Chemicals and Asthma-Related Outcomes
Convention Center, 400 Level, Terrace Ballroom III, 12:30 pm

****AAAII Foundation Named Lectureships****

AAAII Foundation Named Lectureships are established to recognize substantial contributions of at least $100,000 to the AAAII Foundation through collaborative contributions of others or individual contributions honoring an individual or entity. The AAAII Foundation leadership is proud to announce the lectureships and lecture speakers for the 2020 AAAII Annual Meeting. Biographies and photographs are available at annualmeeting.aaaai.org.

**Friday, March 13th**

Heritage Lectureship, Honoring Drs. Robert Becker, Jerry Dolovich, Elliot Middleton, John Salvaggio, Burton Zweiman (2nd year)
Lecturer: Supinda Bunyavanich, MD MPH FAAAAI
1802 Implementing Multi-Omics Approaches into Translational Allergy Research: Food Allergy Translational-Omics Research
Convention Center, 100 Level, Room 121, 4:55 pm

AAAII Foundation and Bettina C. Hilman, MD Lectureship (3rd year)
Lecturer: Holger Schunemann, MD MSc PhD
1601 The Future is Here: The Future of Clinical Practice Guidelines: Their Promise for Optimizing Healthcare Decision Making and Improving Patient-Centered Healthcare Outcomes
Convention Center, 200 Level, Hall C, 2:05 pm

AAAII Foundation and Phil and Barbara Lieberman and Friends Lectureship: Investing Together in Our Future (6th year)
Lecturer: Jay Portnoy, MD FAAAAI
1601 The Future is Here: The Promise of Telemedicine as an Emerging and Disruptive Influence in Healthcare
Convention Center, 200 Level, Hall C, 1:35 pm

**The Robert G. Townley Memorial Lectureship**
Lecturer: Terumi Midoro-Horiuti, MD PhD FAAAAI
2522 National Institute of Allergy and Infectious Disease: Newest Insights into the Connection between Atopic Dermatitis and Food Allergy
Convention Center, 400 Level, Terrace Ballroom IV, 12:30 pm

**The Hugh A. Sampson Lectureship in Food Allergy**
Lecturer: Donald Leung, MD PhD FAAAAI
1811 Allied Health Plenary: Evidence Based Care How to Talk to your Patients about Evidence-Based Care
Convention Center, 100 Level, Room 108, 4:55 pm

**Sunday, March 15th**

**The Rebecca Buckley Lectureship**
Lecturer: Elizabeth Oelsner, MD MPH
3521 National Heart, Lung, and Blood Institute: Opportunities for Asthma Research in the Era of Big Data
Convention Center, 400 Level, Terrace Ballroom III, 12:30 pm

**AAAII Foundation and Louis M. Mendelson, MD FAAAAI Lectureship: Investing Together in Our Future (4th year)**
Lecturer: John Oppenheimer, MD FAAAAI
1601 The Future is Here: Will the Promise of Improved Patient-Centered Healthcare Outcomes Be Achieved via our Future Transition to Value-Based Reimbursement?
Convention Center, 200 Level, Hall C, 2:35 pm

**AAAII Foundation and Harold S. Nelson, MD FAAAAI Lectureship: Investing Together in Our Future (1st year)**
Lecturer: Paul Offit, MD
1811 Allied Health Plenary: Evidence Based Care How to Talk to your Patients about Evidence-Based Care
Convention Center, 100 Level, Room 108, 4:55 pm

**AAAII Foundation and Gail G. Shapiro, MD FAAAAI Memorial Lectureship (2nd year)**
Lecturer: Karen Gregory, DNP APRN-BC RRT AE-C
1811 Allied Health Plenary: Evidence Based Care Up in Smoke, Vaping, Asthma and COPD
Convention Center, 100 Level, Room 108, 4:20 pm
The American Academy of Allergy, Asthma & Immunology Foundation presents the

2020 Named Lectureship Series

Featuring Lectures at AAAAI Annual Meeting Plenary, Keynote and Symposium Sessions In Honor Of:

K. Frank Austen, MD FAAAAAI & Albert L. Sheffer, MD FAAAAAI
I. Leonard Bernstein, MD FAAAAAI
Michael M. Frank, MD FAAAAAI
Bettina C. Hilman, MD
Allen P. Kaplan, MD FAAAAAI
Phillip E. Korenblat, MD FAAAAAI
Dennis K. Ledford, MD FAAAAAI & University of South Florida Allergy & Immunology Division
Donald Y. M. Leung, MD PhD FAAAAAI & JACI Editors

Phil and Barbara Lieberman and Friends
Richard F. Lockey, MD MS FAAAAAI & University of South Florida Allergy & Immunology Division
Louis M. Mendelson, MD FAAAAAI
Harold S. Nelson, MD FAAAAAI
David S. Pearlman, MD FAAAAAI
Gary S. Rachelefsky, MD FAAAAAI
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AAAAI Faculty Development Program

Learn more and apply by March 30 at EDUCATION.AAAAI.ORG/2020FACDEV
### Saturday, March 14

**Bench to Bedside: K. Frank Austen, MD FAAAAI & Albert L. Sheffer, MD FAAAAI Lectureship (1st year)**  
**Lecturer:** John V. Fahy, MD  
2101 New Paradigms in the Management of Severe Asthma: Contemporary Considerations in Targeting Low T2 Components of Asthma  
Convention Center, 200 Level, Hall D, 8:20 am

**AAAAI Foundation and Phillip E. Korenblat, MD FAAAAI Lectureship: Investing Together in Our Future (3rd year)**  
**Lecturer:** Sally Wenzel, MD FAAAAI  
2101 New Paradigms in the Management of Severe Asthma: Application of Biomarkers to Optimize Patient Targeted Biologic Therapy  
Convention Center, 200 Level, Hall D, 8:50 am

**AAAAI Foundation and Dennis K. Ledford, MD FAAAAI & University of South Florida Allergy & Immunology Division Lectureship (2nd year)**  
**Lecturer:** Stanley Szefler, MD FAAAAI  
2101 New Paradigms in the Management of Severe Asthma: An Algorithmic Approach to Selecting and Continuing Biologic Therapy  
Convention Center, 200 Level, Hall D, 9:20 am

**AAAAI Foundation and Gary S. Rachelefsky, MD FAAAAI Lectureship: Investing Together in Our Future (3rd year)**  
**Lecturer:** Shantanu Agrawal, MD MPhil  
2701 Getting to the Results that Matter: Supporting the Transition to Value: Getting to the Results that Matter: Supporting the Transition to Value  
Convention Center, 200 Level, Hall D, 3:30 pm

### Sunday, March 15

**AAAAI Foundation and Michael M. Frank, MD FAAAAI Lectureship (1st year)**  
**Lecturer:** Nora Barrett, MD FAAAAI  
More Than a Barrier: The Roles of Airway Epithelium in Healthy and Allergic Metabolic and Immune Responses: A Single-Cell Expression Atlas of Epithelial Cells to Explain Mechanisms of an Airway Disease  
Convention Center, 200 Level, Hall D, 8:20 am

**AAAAI Foundation and Richard F. Lockey, MD MS FAAAAI & University of South Florida A/I Program Lectureship (1st year)**  
**Lecturer:** Noam A. Cohen, MD PhD  
3101 More Than a Barrier: The Roles of Airway Epithelium in Healthy and Allergic Metabolic and Immune Responses: Epithelial Taste-Chemosensory Cells in Regulation of Allergic Inflammation  
Convention Center, 200 Level, Hall D, 8:50 am

**AAAAI Foundation and Donald Y. M. Leung, MD PhD FAAAAI-JACI Lecture: Investing Together in Our Future (8th year)**  
**Lecturer:** Xin Sun, PhD  
3101 More Than a Barrier: The Roles of Airway Epithelium in Healthy and Allergic Metabolic and Immune Responses: Pulmonary Neuroendocrine Cells: Translating Neuronal and Environmental Cues into Immune Responses in Asthma and Other Lung Diseases  
Convention Center, 200 Level, Hall D, 9:20 am

### Monday, March 16

**AAAAI Foundation and Allen P. Kaplan, MD FAAAAI Lectureship: Creating Knowledge for Our Future (1st year)**  
**Lecturer:** James Gern, MD FAAAAI  
4101 Rhinoviruses, Atopy, and Asthma Exacerbations: Implications for Management in an Era of Biologics and Precision Medicine: Virus-induced Exacerbations: Epidemiology and Risk Factors  
Convention Center, 200 Level, Hall D, 8:20 am

**AAAAI Foundation and I. Leonard Bernstein, MD FAAAAI Memorial Lectureship (4th year)**  
**Lecturer:** Matthew C. Altman, MD  
4101 Rhinoviruses, Atopy, and Asthma Exacerbations: Implications for Management in an Era of Biologics and Precision Medicine: Mechanisms of Exacerbations: Role of Atopy and Biologic Therapies  
Convention Center, 200 Level, Hall D, 8:50 am

**AAAAI Foundation and David S. Pearlman, MD FAAAAI Lectureship: Contributing to Discovery and Education (1st year)**  
**Lecturer:** Kathleen Barnes, PhD FAAAAI  
4101 Rhinoviruses, Atopy, and Asthma Exacerbations: Implications for Management in an Era of Biologics and Precision Medicine: Genetic Susceptibility to Virus-induced Exacerbations in the Era of Precision Medicine  
Convention Center, 200 Level, Hall D, 9:20 am
Awards

AAAI Allied Health Professionals Assembly Travel Scholarship Awards

**Awarded Amount: $750**

Elizabeth Varga, MS  
*Nationwide Children's Hospital*

Jessica Turner, MPH  
*University of Arkansas for Medical Sciences*

Amanda S. Troger, BSN RN  
*Children’s National Medical Center*

Anna C. Sprunger, PA-C  
*Children’s National Medical Center*

Callie A. Margiotta  
*Arkansas Children’s Hospital*

Emily English, RN CPNP  
*The University of North Carolina School of Medicine*

Felicia DiLoreto, PharmD  
*Parkland Health and Hospital System*

Catherine C. Peterson, PhD  
*Eastern Michigan University*

**Allied Health Abstract Travel Awards**

James J. Anderson, MLT  
*Environmental Allergy Assays*

“Pollen Count Standardization for Burkard & Rotorod Samplers”

Melanie C. Gleason, MS PA-C  
*Children’s Hospital Colorado*

“Health Navigators Are an Effective Strategy to Bridge the Gap for School-aged Children at Risk for Asthma Disparities”

Nabarun K. Ghosh, PhD  
*West Texas A&M University*

“Use of Bi-Polar® Ionization Technology to Combat with the Increased PM 2.5 Count and Aeroallergen Indices”

Dena M. Pence, RRT  
*Allergy Partners of North Texas*

“Fighting Food Allergy With Food: Eleven-Year Experience With Oral Immunotherapy For Food Allergy (OIT)”

**AAAI/APFED Best Abstract on EGIDs Award**

The award is funded by APFED and provides $750.

Benjamin L. Wright, MD  
*Mayo Clinic Arizona*

“Peanut Oral Immunotherapy Induces Gastrointestinal Eosinophilia in a Longitudinal Randomized Controlled Trial”

Margaret H. Collins, MD  
*University of São Paulo*

“Budesonide Oral Suspension Improves Histologic Features in Patients with Eosinophilic Esophagitis: Results from a Phase 3, Randomized, Double-blind, Placebo-controlled Trial”

2020 Bernard B. Siegel Memorial Abstract Award

Aviv Talmon  
*Hadassah Medical Center*

“Characterization of Patients with Allergic Reactions to Iodinated Contrast Media during CT Scan”

American Academy of Pediatrics Section on Allergy and Immunology Pediatric Abstract Awards

**FIT Award Recipients - $750**

Nicole Akar-Ghibril, MD  
*Boston Children’s Hospital*

“Association of Systemic IL-6 Inflammation with Body Mass Index, Asthma Morbidity, and Metabolic Dysfunction in the School Inner-City Asthma Study”

Julia Flom, MD PhD MPH  
*Mount Sinai*

“Associations between Active Maternal Atopy in Pregnancy and Offspring Asthma Risk: Effect Modification by Prenatal Dietary Long-chain Polyunsaturated Fatty Acid Intake”

Michelle Maciag, MD  
*Boston Children’s Hospital*

“Detection of Food Allergens in Floor Dust and Table Wipe Samples in the Urban Elementary School Environment”
Awards

AAAII Interest Section Fellow-in-Training Abstract Awards

Anaphylaxis, Dermatology & Drug Allergy
Lily Li, MD
Brigham and Women’s Hospital
“Reported Drug Allergies Among Patients with Opioid Use Disorder”

Asthma Diagnosis and Treatment
Dinah Foer, MD
Brigham and Women’s Hospital
“Glucagon-like Peptide-1 Receptor Agonists Decrease Systemic Th2 Inflammation in Asthmatics”

Basic and Clinical Immunology
Carolyn Baloh, MD
Duke University Medical Center
“Predicting Autoimmunity Development in 22q11.2DS”

Environmental and Occupational Respiratory Diseases
Michelle C. Maciag, MD
Boston Children’s Hospital
“Detection of Food Allergens in Floor Dust and Table Wipe Samples in the Urban Elementary School Environment”

Food Allergy & Eosinophilic Disorders
Nicole LaHood, MD
Massachusetts General Hospital
“Ara h 2 Specific IgA B Cell Repertoire Matures During Peanut Oral Immunotherapy”

Health Outcomes, Education, Delivery and Quality
Karen Anstey, MD
University of California, San Francisco
“Development of an Antibiotic Allergy Program to Address a Clinical Gap in the Antibiotic Stewardship of Cystic Fibrosis Patients”

Immunotherapy, Rhinitis, Sinusitis, and Ocular diseases
Chirawat Chiewchalermsri, MD
Phramongkutklao Hospital
“Adjunctive Vitamin D2 Supplement in Patient with Allergen-Specific Immunotherapy Randomized, Double Blind, Placebo-Controlled Trial”

Mechanisms of Asthma and Allergic Inflammation
Ohn Chow, MD PhD
Massachusetts General Hospital
“A Serum Factor Mediates Type-2 Immunogen Sensing by Resident Lymph Node Macrophages”

2020 International Travel Scholarships

The following international in-training members have been awarded International Travel Scholarships to attend the Annual Meeting. The 2020 International Travel Scholarships are funded by the AAAAI and selected by an ad hoc panel of international fellows.

East Asia
Kullapornpas Benyajirapach, MD
King Chulalongkorn Memorial Hospital
Pannipa Kittipongpattana, MD
King Chulalongkorn Memorial Hospital
Chanaphorn Mokkhamakkun, MD
Mahidol University, Siriraj Hospital
Pisuttikan Rangkakulnuwat, MD
Chiang Mai University Hospital
Sasipa Sangkanjanavanich, MD
Phramongkutklao Hospital
Thitaya Sangsawang, MD
Queen Sirikit National Institute of Child Health
Preyanit Takkinsatian, MD
Mahidol University, Siriraj Hospital

Europe
Nandinee Patel, MD
Imperial College London
Maria J. Rodriguez-Sanchez, MD
University of Malaga

South America
Larissa S. Brandão, MD
Federal University of São Paulo
Raissa MSA Roque, MD
Federal University of São Paulo
Nathalia N. Vital, MD
Federal University of São Paulo

2020 Medical Student and Resident Travel Scholarships

The Medical Student and Resident Scholarships are open to medical students and residents in the United States and Canada. Funded by the AAAAI.

Awarded Amount: $1,100

Dennis L. Caruana, BS
Christopher H. Chu, MD
Nicole M. Cremer, MD
Alicia H. Darwin
Sarah R. Johnson, MD
Sevdenur Keskin, MD
Claudia Lau, MD
Kelsey M. Lecerf, MD
Grace Lee
Michael C. Lee, DO
Daniel H. Li, MD
Daniel Maghen, MD
Fatema Molla, MD
Aishwarya Navalpakam, MD
Michael Z. Nevid, MD
Vin T. Nguyen
Yitzchok M. Norowitz
Matthew R. Norris, MD
Adam S. Price, MD
Prudhvi Regula, MD
Syed M. Rizvi, MD
Karina Rotella, MD
Christine Rubeiz, MD
Nina Sadigh, MD
Shannon J. Sullivan, MD
Andrea Tham, MD
John Trickett, MD
Brit Trogen, MD
Brynne Underwood, MD
Awards

2020 Domestic Fellow-in-Training Travel Scholarships

The FIT Travel Scholarships are open to fellows-in-training in the United States and Canada. Funded by the AAAAI.

**Awarded Amount: $1,100**

- Sarah M. Abbassi, MD
- Neha Agnihotri, MD
- Hassan A. Ahmad, MD
- Nicole Akar-Ghirbi, MD
- Ayobami Akenroye, MD MPH
- Alicia A. Alvarez, MD
- Santiago Alvarez-Arango, MD
- Carolyn H. Baloh, MD
- Yarina Benitez Ortiz, MD
- Whitney Blackwell, MD
- Ana-Maria Bosonea, MD
- Amy D. Burris, MD
- Joseph Cafone, MD
- Peter S. Capucilli, MD
- Melissa A. Cardenas-Morales, MD
- Alice S. Chau, MD
- Xuesong Chen, MD
- Yih-Chieh Chen, MD
- Sheeba K. Cherian, MD
- Sun Mi Choi, MD PhD
- Madeleine B. Chollet, MD
- Ohn A. Chow, MD PhD
- Barrie Cohen, MD
- David Coleman, MD
- Aparna S. Daley, MD
- Stephannie Davies, MD
- Irina Dawson, MD
- Christin Deal, MD
- Roman Deniskin, MD PhD
- Deepti R. Deshpande, MD
- Ravneet N. Donegan, MD
- Lucy Y. Duan, MD
- Clinton P. Dunn, MD
- Iwona Dziwala, DO
- Amy Eapen, MD
- Michelle El-Hosni, MD
- Victoria Eng, MD
- Chioma Enwesior, MD
- Stephanie C. Erdle, MD
- Arfa Faiz, MD MBBS
- Cara Farhat, DO
- Eleanor Feldman, MD
- Julie Flom, MD PhD MPH
- Dinah Foer, MD
- Dustin L. Fowler, DO
- Olivia L. Francis, MD
- Jane Marie F. Freeman, MD
- Claudia L. Gaefke, MD
- Jessica Galant-Swafford, MD
- Jessica Gereige, MD
- Patrick K. Gleeson, MD
- Vinay P. Goswamy, MD
- Shikha Gupta, MD
- Mehtap Haktanir Abul, MD
- Abeer Hegazi, MD
- Jessica W. Hui, MD
- Edward Iglesias, MD
- Mansi James, DO
- Basil M. Kahwash, MD
- Lauren Kaminsky, PhD
- Micah Karasov, DO
- Katie Kennedy, MD
- Shumaila Khan, MD
- Dilawar S. Khokhar, MD
- Alice Knoedler, MD
- Margaret Kuder, MD
- Nicole LaHood, MD
- Dawn K. Lei, MD
- Lily Li, MD
- Runx-chi Li, DO PhD
- Rachelle Lo, MD
- Kathleen Luskin, MD
- Michelle C. Maciag, MD
- Hannah Martin, MD
- Joao Pedro Matias Lopes, MD
- Stacy M. Nassau, MD
- Kathryn Neupert, MD
- Anh P. Nguyen, MD
- Rory Nicolaides, MD
- Nneoma Obiejeamba, MD
- Eliza Ochfeld, MD
- Nora Odisho Domit, DO
- Jessica Oh, MD
- Kelly M. O’Shea, MD
- Nurcicek Padem, MD
- Gayatri Patel, MD
- Meera Patrawala, MD
- Megan Patterson, MD
- Ryan Paul, MD
- Neelam A. Phadke, MD
- Hoang M. Pham, MD
- Jennifer Pier, MD
- Michael Polcari, MD
- Steven P. Proper, DO PhD
- David M. Pyle, MD PhD
- Nicole Ramsey, MD PhD
- Christine Rauscher, MD
- Lacey Robinson, MD
- Jose Rojas Camayo, MD
- Daniel L. Rosenberg, MD
- Daniel A. Rosloff, MD
- Zachary Rubin, MD
- Miriam Samstein, MD PhD
- Parteet Sandhu, MD
- Sonam Sani, MD

**Awarded Amount: $800**

- Tara Sarin, MD
- Stephen A. Schworer, MD PhD
- Junghee J. Shin, MD PhD
- Pragya Shrestha, MD
- Elizabeth R. Smith, MD
- Julia Sohn, MD
- Jacqueline Squire, MD
- Heather Stern, DO
- Matthew D. Straesser, MD
- Di Sun, MD MPH
- Mohamed Taki, MD MS
- Hiral P. Thakrar, MD
- Jennifer Thompson, MD
- Julia Thorsen, MD
- Kun Tian, MD RN
- Paulina Tran, DO
- Ulyana Trytko, MD
- Linh-An C. Tuong, MD
- Jessica S. Van Mason, MD
- Chandra Vethody, MD
- Jamie L. Waldron, MD
- Laura J. West, MD
- Eric M. Wohlford, MD PhD
- Neha Yakhmi, MD
- Jennifer R. Yonkof, MD
- Sherry Zhou, MD MS

- Yuliya Afinogenova, MD
- Aba Al-Kaabi, MD
- Walea Almasri, MD
- Katherine Altman, DO
- John Anthonypillai, MD
- Kestutis Aukstotis, DO
- Mariana Avelar Falcone de Melo, MD
- Seemal Awad, MD
- Balraj S. Bajaj, MD
- Shoroop Banjar, MD
- Tina Banzon, MD
- Angeliki Barlas, MD
- Suzanne M. Barshow, MD
- Bradley M. Boelkins, MD
- Ryan Buckley, MD
- Emily M. Campbell, MD
- Nicole Canan, MD
- Irene Chair, MD
- Arjola Cosper, DO
- Rahool P. Davé, MD
- Rashmi D’mello, MD
- Idil D. Ezuthachan, MD
- Paul Faybusovich, DO
- Kelsey A. Field, MD
- Abigail N. Finley, MD MPH
Awards

2020 Domestic Fellow-in-Training Travel Scholarships (continued)

Thomas Fowler, MD
Elizabeth George, MD
Bailee H. Gilchrist, MD
Alegra V. Grieb, MD
Amanda V. Gripen Goddard, DO
Lily Grobman, MD
Olga Hardin, MD
Jordan Harry, MD
Jenny Y. Huang, MD
Christina M. Huddleston, MD
Stephanie Hudey, MD
Aled Iaboni, MD
Peter Ip Fung Chun, MD
Elliot L. James, MD
Haoli Jin, MD PhD
Eric P. Jones, MD
Michelle Joseph, MD
Ekta Kakkar, MD
Elizaveta Kalaidina, MD
Anuja Kapil, MD
Nicholas Kolinsky, DO
Stephanie A. Kubala, MD
Erika Y. Lee, MD BSc
Ivan Lee, MD PhD
Taylor A. Lin, MD
Vasudha Mantravadi, MD
Alissa B. McInerney, MD
Veronica Meawad, MD
Anna Meyer, MD
Pavl S. Milutinovic, MD PhD
Jyotsna Mullur, MD
Tejal Narasai, MD
Alan Nguyen, MD
Diana X. Nichols-Vinueza, MD
Osman Numair, MD
Sebastian Ochoa Gonzalez, MD
Christine M. Panganiban, MD MS
Sanjay Patel, DO
Vima M. Patel, MD
Matthew Perez, MD
Sarah Pham, MD
Arman Pirzad, MD
Eri W. Rasmussen, MD
Jeehyun Rha, MD
Colleen Sabelia, MD
Venkatesh Sabhaye Gangadharappa, MD
Keith A. Sacco, MD
Shweta Saini, MD
Carol Saleh, MD
Zeinab Saleh, MD
Neha Sanan, DO
Amandeep Sandhu, MD
Kristy M. Semenza, MD
Aminaa Siddiqi, MD
Peter Stepaniuk, MD
Ashley N. Stoner, MD
Stefani Su, MD
Tarah S. Talakoub, DO
Katherine L. Tison, MD
Nalin U.G., DO
Daniel Urschel, MD
Juanita Valdes Camacho, MD
Raul Villarreal Jr., MD
Hannah C. Wangberg, MD
Omar Waqar, MD
Melissa M. Watts, MD
Richard Wu, MD
Barbara Yang, MD
Linda Zhu, MD
Rongbo Zhu, MD

Awarded Amount: $650

Adil Adatia, MD
Ammara G. Ahmed, DO
Suzanne R. Kochis, MD
William J. Lavery, MD PhD
Elise Liu, MD
Jason Schend, DO
Reimus Valencia, DO
Shan Shan Wu, DO
Ofer Zimmerman, MD
2020 PhD Travel Scholarships
The PhD Travel Scholarships are open to non-faculty PhD post-doctoral fellows and PhD students/candidates working on A/I related topics with an affiliated A/I program in the United States or Canada.

Awarded Amount: $1,100
Marieme Dembele
Jennifer M. Felton, PhD
Cameron H. Flayer, PhD
Vivek D. Gandhi
Tammy Gonzalez
Hemanth Kumar Kandikattu, PhD
Behnam Keshavarz, PhD
Kristin A. Lambert
Lyndsey M. Muehling, PhD
Jun Nagai, PhD
Rachael E. Rush
Johanna Smeekens, PhD

Awarded Amount: $800
Lakeya C. Hardy
Jada Suber

2020 AAAAI/EAACI Reciprocal Travel Grants
Each year, AAAAI sponsors two EAACI junior members to attend the AAAAI Annual Meeting, and in turn, EAACI sponsors two AAAAI fellows-in-training to attend the EAACI Congress.

Carmen Riggioni Viquez, MD
University of Barcelona
Pasquale Comberiati, MD
University of Pisa

AAAAl Payer Relations
Initiating communication and conversations to protect patient access to care and provider compensation.

- Advocating for you: more than 250 letters sent to payers in 2019 to address policies of concern.
- Evaluating payer policy revisions: more than 750 allergy, 1800 asthma and 700 immunotherapy policies reviewed in 2019.
- Impacting policies ranging from compensation for drug allergy and venom immunotherapy services to measurement of exhaled nitric oxide.
- Engaging with payers across the country, including Blue Cross Blue Shield, Humana, Wellmark, Aetna, Anthem, and many more.

“We always appreciate feedback on our coverage policies from providers in the field and subject matter experts. Let me know if we should set up a meeting.”
Clinical Pharmacy Director, March, 2019
THE AAAAI FOUNDATION IS PLEASED TO ANNOUNCE THE RECIPIENTS OF OUR 2020 FACULTY DEVELOPMENT AWARDS

Mark Gorelik, MD
The AAAAI Foundation & Richard F. Lockey, MD, MS, FAAAAI & USF A/I Program Faculty Development Award
Columbia University School of Medicine
Follistatin Like-1 Protein is a Modulator of Immune Response in Inflammatory Vasculitis

Onyinye I. Iweala, MD PhD
The University of North Carolina at Chapel Hill
Glycolipids and Invariant Natural Killer T Cells in Alpha-gal Syndrome

Michael G. Sherenian, MD
Cincinnati Children’s Hospital Medical Center
The Role of Hemostasis in Atopic Dermatitis

Jeffrey Wilson, MD PhD
University of Virginia
Investigations into the Glycolipid form of the Mammalian Oligosaccharide Galactose-a-1,3-Galactose (a-Gal) as an Agent of IgE-mediated Delayed Anaphylaxis and Atherosclerosis
Claim Annual Meeting Credits

Select **Claim Credits** on the Annual Meeting app or annualmeeting.aaaai.org

Enter your badge number or name and choose certificate type

Complete evaluation and select sessions you have attended

Click **Save Sessions** and **Go Forward** after selecting all sessions

**Deadline: December 31, 2020**
Continuing Education & Accreditation

Two types of continuing education credit will be available at the 2020 AAAAI Annual Meeting:AMA PRA Category 1 CME Credits™ for physicians and Continuing Education (CE) contact hours for nurses. Not all Annual Meeting sessions may offer credit, and of those that do, not all may offer both CME and CE. The types and amount of credit offered for each session are indicated in the session descriptions beginning on page 52. Attendance certificates are available to all delegates.

Credit Claiming: Continuing education credits and attendance certificates can be claimed at the Registration Desk, located in the Convention Center, 100 Level, Broad Street Atrium, beginning Thursday March 12. Credits and certificates can also be claimed online at http://annualmeeting.aaaai.org beginning Thursday March 12 and ending December 31, 2020.

Physicians – Continuing Medical Education (CME) Credits

Accreditation Statement
The American Academy of Allergy, Asthma and Immunology (AAAAI) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Credit Designation
The AAAAI designates this live activity for a maximum of 43.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Medical Association has determined that physicians not licensed in the U.S. who participate in this CME activity are eligible for AMA PRA Category 1 Credits™.

Target Audience
The AAAAI Annual Meeting is designed for clinicians, researchers, trainees/students and allied health professionals involved and/or interested in the study of allergy, asthma and immunology.

Program Objective
Upon completion of the AAAAI Annual Meeting, participants should be able to discuss the latest advances in the research, diagnosis and treatment of allergic and immunologic disease. Please refer to the individual session descriptions in the Online Planner and mobile app for session-specific learning objectives.

ABAI – Continuing Medical Education (CME) Credits
The American Board of Allergy and Immunology (ABAI) requires diplomates to attest to obtaining 25 AMA PRA Category 1 CME Credits™ in allergy/immunology each year. AAAAI reports all CME credits it issues to physician learners to the ABAI on a quarterly basis to be posted in learners’ diplomate portals. For more information about credit requirements for ABAI Maintenance of Certification visit the ABAI website at https://abai.org/cme.asp.

Allied Health – Continuing Education (CE) Credits

Nurses – Continuing Education (CE) Contact Hours
The American Academy of Allergy, Asthma & Immunology (AAAAI) is a Provider, approved by the California Board of Registered Nursing, Provider #10704, for up to 43.00 Contact Hours.

Medical Administrators
Practice administrators who attend the AAAAI Annual Meeting may apply for credit through the American College of Medical Practice Executives (ACMPE). For additional information, please contact the Medical Group Management Association at www.mgma.com.

Advanced Practitioners
The AAPA, ANCC and AANP accept reports from advanced practitioners of their participation in activities offering AMA PRA Category 1 Credits™ for continuing education and credentialing purposes. For more information, please contact the appropriate organization.

Pharmacists
Pharmacists are encouraged to contact their state boards of pharmacy to determine if reports of participation in the AAAAI Annual Meeting are accepted for re-licensure.

Registered Dietitians
The Commission on Dietetic Registration accepts reports from registered dietitians of their participating in activities offering AMA PRA Category 1 Credits™ for continuing education and credentialing purposes. Contact the CDR for details on how to report your completion of these activities.

Target Audience
Health care professionals who assist with and provide care to persons with asthma, allergy and immunologic disease, specifically: RNs, LPNs, nurse practitioners, physician assistants, respiratory therapists, medical technologists, medical assistants, clinical research coordinators, and practice managers/administrators.

Learning Objectives
Upon completion of the AAAAI Annual Meeting, participants should be able to discuss and expand upon the latest advances in medications, equipment and procedures necessary to promote health for their patients; describe and discuss new therapies, information, patient care and education in the field of allergy, asthma and immunology; identify new approaches to clinical research which will improve efficiency and effectiveness; and discuss coding and other administrative aspects of a medical practice. Please refer to the individual session descriptions in the Online Planner and mobile app for session-specific learning objectives.
Sessions Tracked by Topic
To help you navigate the 225+ sessions in the Annual Meeting program, the index on the following pages lists all of the education sessions by topic. The topic categories include:

- Allergens/Allergy Testing/Allergy Therapeutics
- Allergic and Immunologic Skin Diseases
- Allergy Office Practice
- Anaphylaxis/Urticaria/Angioedema
- Asthma
- Autoimmune/Autoinflammatory Disorders
- Drug/Insect Allergy/Vaccines
- Food Allergy
- Immune Mechanisms
- Immunodeficiency
- Lung Diseases Other than Asthma
- Mast Cell/Eosinophilic Disorders
- Research Principles
- Rhinosinusitis/Ocular Allergy
- Training and Career Development

These categories are included in the session descriptions in the Online Program as well. Use this index to tailor your Annual Meeting agenda to best meet your learning needs and answer your questions about your practice.

2020 Clinical Theme:
New Paradigms in the Management of Allergic Disease – Focus on Biologics

All education sessions related to the Annual Meeting clinical theme are highlighted in light orange. Theme-related sessions include plenaries, symposia, workshops, and seminars throughout the meeting.
### Introduction to Session Tracks

<table>
<thead>
<tr>
<th><strong>Allergens/Allergy Testing/Allergy Therapeutics</strong></th>
<th><strong>Allergic and Immunologic Skin Diseases</strong></th>
</tr>
</thead>
<tbody>
<tr>
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<td><strong>Thursday, March 12, 2020</strong></td>
</tr>
<tr>
<td>0201 Basic Aeroallergen Course</td>
<td><strong>0001</strong> 34th Annual Harold S. Nelson Military Allergy/Immunology Symposium</td>
</tr>
<tr>
<td><strong>Friday, March 13, 2020</strong></td>
<td><strong>Friday, March 13, 2020</strong></td>
</tr>
<tr>
<td>1504 Air Sampling and Analysis: Current Approaches and Future Developments</td>
<td>1203 More than Skin Deep: Diagnosing Systemic Diseases in Patients Presenting with Rashes in Allergy and Immunology Clinics</td>
</tr>
<tr>
<td>1516 Subcutaneous Immunotherapy: Cross-Reactivity, Extract Stability and Optimum Dosing</td>
<td><strong>Saturday, March 14, 2020</strong></td>
</tr>
<tr>
<td>1519 Team Trivia: Do You Know Your Biologics?</td>
<td>2402 Patch Testing: Basics and Beyond</td>
</tr>
<tr>
<td>1804 An Update on the Efficacy and Safety of Subcutaneous (SCIT) and Sublingual Allergen Immunotherapy (SLIT)</td>
<td>2512 Allied Health: Atopic Dermatitis: Bring Your Challenges!</td>
</tr>
<tr>
<td>1808 Biologics: Are they Capable of Leading to Remission?</td>
<td><strong>Sunday, March 15, 2020</strong></td>
</tr>
<tr>
<td><strong>Saturday, March 14, 2020</strong></td>
<td><strong>3007</strong> Contact Dermatitis in the Patient with Atopic Dermatitis</td>
</tr>
<tr>
<td>2003 Basophil and Mast Cell Activation Tests in the Diagnosis of Allergies</td>
<td>3551 All Patients Suspected of Metal Allergy Should be Patch Tested</td>
</tr>
<tr>
<td>2301 World Allergy Forum: Global Trends in Allergen Immunotherapy</td>
<td><strong>Allergy Office Practice</strong></td>
</tr>
<tr>
<td>2551 Eosinophil Overrides Immunoglobulin E in Selecting Biologic Therapy</td>
<td><strong>Friday, March 13, 2020</strong></td>
</tr>
<tr>
<td>2802 Hot Topics in Pediatric Allergy and Immunology</td>
<td>1202 Practice Management Pearls</td>
</tr>
<tr>
<td>2804 Controversial Topics in Subcutaneous Immunotherapy and Sublingual Immunotherapy</td>
<td>1210 Improving Cross-Cultural Communication Between Allergy/Immunology Providers and Patients</td>
</tr>
<tr>
<td>2806 Asthma Biologics During Pregnancy: Safety and Use</td>
<td>1213 Allied Health Advanced Practice Course: Health Literacy in the Age of the Internet: Combating Dr. Google</td>
</tr>
<tr>
<td>2809 Immunotherapy Counts: Interactive Patient Cases</td>
<td>1511 Bring Novel Ideas to Project Development: Advancing Allergy/Immunology Practice</td>
</tr>
<tr>
<td><strong>Sunday, March 15, 2020</strong></td>
<td><strong>1601</strong> The Future is Here</td>
</tr>
<tr>
<td>3001 Toxic Mold, Health Effects and Home Assessment</td>
<td>1809 Keeping Up with Ever-Changing Clinical Guidelines: The Latest from the Joint Task Force on Practice Parameters</td>
</tr>
<tr>
<td>3002 Big Data Analytics and Crowdsourcing Social Media at the National Allergy Bureau</td>
<td><strong>1811</strong> Allied Health Plenary: Evidence-Based Care</td>
</tr>
<tr>
<td>3306 Treatment of Aspirin-Exacerbated Respiratory Disease (AERD) in the Age of Biologics</td>
<td><strong>Saturday, March 14, 2020</strong></td>
</tr>
<tr>
<td>3402 Subcutaneous Immunotherapy: How to Select Your Allergens and Prepare Your Vials</td>
<td>2309 Using Digital Technologies to Promote Adherence and Asthma Control</td>
</tr>
<tr>
<td>3502 Small Molecule Targets for Asthma and Allergic Disease: Lost in the Sea of Biologics?</td>
<td>2523 Allied Health: Empowering Food Allergic Patients to Handle Bullying and School Related Problems</td>
</tr>
<tr>
<td>3505 Nasal Allergen Provocation and Local Allergic Rhinitis in Clinical Practice</td>
<td>2701 Getting to the Results that Matter: Supporting the Transition to Value</td>
</tr>
<tr>
<td>3704 EORD: The Increasing Complexity of the Environment: Homogenized ‘Dead’ Milk, Tick Bites and Dust Mites Produce Different Immunological and Clinical Outcomes</td>
<td><strong>2803</strong> The Changing Face of Continuing Certification: Allergist/Immunologists, AAAAI and ABAI Leading the Way</td>
</tr>
<tr>
<td><strong>Monday, March 16, 2020</strong></td>
<td><strong>2811</strong> Motivational Interviewing, Communication Skills and Hands-on Training to Improve Asthma Adherence and Outcomes</td>
</tr>
<tr>
<td>4001 Using Component Based Diagnostics and Effective Allergen Doses for Diagnosis and Subcutaneous Immunotherapy (SCIT) Treatment</td>
<td>4713 A Case of Severe Cat Allergy in the Era of Precision Medicine: Molecular Allergen Testing</td>
</tr>
</tbody>
</table>
### Sunday, March 15, 2020

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>3006</td>
<td>How to Apply Component Based Testing in Your Practice: A Case-Based Presentation</td>
</tr>
<tr>
<td>3012</td>
<td>Allied Health: How to Develop and Evaluate Patient-Facing Mobile Health (mHealth) Applications for Asthma and Allergic Diseases</td>
</tr>
<tr>
<td>3301</td>
<td>EAACI: Can Artificial Intelligence Improve Patient Outcomes?</td>
</tr>
<tr>
<td>3310</td>
<td>Working Together to Disseminate the AAAAI’s Choosing Wisely Recommendations to Institutions, Hospitals and Other Specialties</td>
</tr>
<tr>
<td>3403</td>
<td>House Calls in the 21st Century: Making Telemedicine Work in Your Practice</td>
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<tr>
<td>3501</td>
<td>The Smart Home Health and Fitness Revolution: Helping Patients Utilize Personal Health Technology</td>
</tr>
<tr>
<td>3509</td>
<td>Nuts and Bolts of Setting up Your Practice to Administer Biologic Therapies</td>
</tr>
<tr>
<td>3512</td>
<td>There’s an App for That: The Use of Mobile Technology in Clinical Practice</td>
</tr>
<tr>
<td>3706</td>
<td>HEDQ: Actionable Ways to Improve Wellness for Allergy/Immunology Clinicians</td>
</tr>
</tbody>
</table>

### Monday, March 16, 2020

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>4003</td>
<td>Urban Pediatric Mobile Asthma Care Delivery Systems: Challenges and Creative Solutions from The Breathmobile Programs</td>
</tr>
<tr>
<td>4007</td>
<td>Quality Improvement: Where to Begin and How to Succeed</td>
</tr>
<tr>
<td>4309</td>
<td>Pulling Back the Curtain on Screening Tests for Allergies, Asthma and Immunodeficiency</td>
</tr>
<tr>
<td>4717</td>
<td>An Asthma Case with Allergy Immunotherapy (AIT) that Needs Proper Coding</td>
</tr>
</tbody>
</table>

### Anaphylaxis/Urticaria/Angioedema

**Friday, March 13, 2020**

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>1103</td>
<td>Allied Health: Approach to Angioedema: Case-Based Learning</td>
</tr>
<tr>
<td>1512</td>
<td>Anaphylaxis: New Challenges</td>
</tr>
</tbody>
</table>

**Saturday, March 14, 2020**

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<thead>
<tr>
<th>Session</th>
<th>Title</th>
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<tbody>
<tr>
<td>2005</td>
<td>Recurrent Angioedema Without Urticaria: A Case-Based Discussion</td>
</tr>
<tr>
<td>2006</td>
<td>Advanced Therapy for Urticaria: Practical Implications</td>
</tr>
<tr>
<td>2303</td>
<td>Preventing Anaphylaxis: Therapies Within Reach</td>
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**Sunday, March 15, 2020**

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<th>Session</th>
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<tbody>
<tr>
<td>3004</td>
<td>Patient with Recurrent Anaphylaxis: When to Refer for Bone Marrow Analysis</td>
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<tr>
<td>3507</td>
<td>Anaphylaxis in Infants</td>
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<tr>
<td>3701</td>
<td>ADDA: Epinephrine for Anaphylaxis: What Do We Know and What Do We Need?</td>
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### Asthma

**Friday, March 13, 2020**

<table>
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<th>Session</th>
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<tbody>
<tr>
<td>1204</td>
<td>Problem-Based Learning: A Case of Severe Uncontrolled Asthma</td>
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<tr>
<td>1503</td>
<td>The Environment, Asthma and Obesity: What are the Relationships?</td>
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<tr>
<td>1510</td>
<td>JACI: In Practice Year-in-Review Workshop</td>
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<tr>
<td>1513</td>
<td>Identifying and Correcting Dysfunctional Breathing Techniques in Athletes with Asthma</td>
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<td>1514</td>
<td>Biologic Therapy Throughout Childhood</td>
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<tr>
<td>1701</td>
<td>National Asthma Education and Prevention Program Expert Panel Report (EPR4) on Selected Topics in Asthma Management 2020</td>
</tr>
<tr>
<td>1801</td>
<td>Naughty Neutrophils Amplifying Asthma</td>
</tr>
<tr>
<td>1805</td>
<td>Collaborative Studies to Identify the Origins of Childhood Asthma</td>
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**Saturday, March 14, 2020**

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<tr>
<th>Session</th>
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<tr>
<td>2021</td>
<td>Allied Health: Difficult Cases: Meet the Challenge</td>
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<tr>
<td>2101</td>
<td>New Paradigms in the Management of Severe Asthma</td>
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<tr>
<td>2302</td>
<td>Emerging Concepts in Childhood Asthma Exacerbations</td>
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<tr>
<td>2307</td>
<td>Spectrum of Occupational Exposure Effects with Asthma: Implications for Diagnosis and Biologic Therapeutics</td>
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<tr>
<td>2310</td>
<td>Systems Analysis of Viral Infection and Asthma</td>
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<tr>
<td>2403</td>
<td>Asthma Medication Delivery Devices: How to Use Them and How to Teach Them</td>
</tr>
<tr>
<td>2509</td>
<td>Asthma in Older Adults: A Different Disease?</td>
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<tr>
<td>2521</td>
<td>National Institute of Environmental Health Sciences (NIEHS): Exposure to Endocrine Disrupting Chemicals and Asthma-Related Outcomes</td>
</tr>
<tr>
<td>2552</td>
<td>Asthma Biologics are Cost Effective for Severe Asthma</td>
</tr>
</tbody>
</table>
### Introduction to Session Tracks

**Sunday, March 15, 2020**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>3010</td>
<td>Tailoring Therapy to the Patient with Asthma</td>
</tr>
<tr>
<td>3302</td>
<td>Environmental Changes and Asthma: A Global Phenomenon That Has Specific Consequences on Special Populations</td>
</tr>
<tr>
<td>3307</td>
<td>From Early Life Infections to Childhood Asthma: Hot Topics</td>
</tr>
<tr>
<td>3313</td>
<td>Allied Health: Allergic Asthma Management: Key Components to Control</td>
</tr>
<tr>
<td>3511</td>
<td>Lessons Learned from Severe Asthma Clinics: An Interdisciplinary Approach</td>
</tr>
<tr>
<td>3520</td>
<td>Asthma Educators Course: Day One</td>
</tr>
<tr>
<td>3521</td>
<td>National Heart, Lung, and Blood Institute (NHLBI): Opportunities for Asthma Research in the Era of Big Data</td>
</tr>
<tr>
<td>3702</td>
<td>ADT: Biologics in Asthma Endotypes: Focus on Aspirin-Exacerbated Respiratory Disease and Allergic Bronchopulmonary Aspergillosis</td>
</tr>
</tbody>
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**Monday, March 16, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>4009</td>
<td>Reviewing the 2017 ATS Updates to the 2005 ATS/ERS Guidelines: How to Perform, Interpret and Report Spirometry</td>
</tr>
<tr>
<td>4010</td>
<td>Non-Eosinophilic Asthma: Novel Biomarkers and Potential Therapeutic Targets</td>
</tr>
<tr>
<td>4020</td>
<td>Asthma Educators Course: Day Two</td>
</tr>
<tr>
<td>4101</td>
<td>Rhinoviruses, Atopy and Asthma Exacerbations: Implications for Management in an Era of Biologics and Precision Medicine</td>
</tr>
<tr>
<td>4303</td>
<td>Cost Effectiveness of Biologic Therapy for Asthma</td>
</tr>
<tr>
<td>4304</td>
<td>Therapeutic Interventions for Viral Infections and Asthma: Hope for Tomorrow</td>
</tr>
<tr>
<td>4718</td>
<td>Combining Biologic Therapies: Safe or Effective?</td>
</tr>
</tbody>
</table>

**Autoimmune/Autoinflammatory Disorders**

**Friday, March 13, 2020**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1201</td>
<td>2020 Difficult Cases</td>
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**Saturday, March 14, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>2002</td>
<td>Use of Biologics for Autoinflammatory Syndrome</td>
</tr>
<tr>
<td>2507</td>
<td>Understanding the Link Between Immunodeficiency and Autoinflammation</td>
</tr>
</tbody>
</table>

**Sunday, March 15, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>3304</td>
<td>Unintended Immune Consequences of Biologic Therapy in Autoimmune Conditions</td>
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**Monday, March 16, 2020**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>4008</td>
<td>Autoimmune Mimics of Allergic Diseases</td>
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</tbody>
</table>

**Drug/Insect Allergy/Vaccines**

**Thursday, March 12, 2020**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0102</td>
<td>Practical Workshops to Jumpstart Your Drug Allergy Assessments</td>
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**Friday, March 13, 2020**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1212</td>
<td>New Developments in Mechanisms of Aspirin-Exacerbated Respiratory Disease (AERD)</td>
</tr>
<tr>
<td>1806</td>
<td>Telemedicine and Drug Allergy</td>
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**Saturday, March 14, 2020**

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>2008</td>
<td>Outpatient Management of Patients with Multiple Drug Allergy Syndrome</td>
</tr>
<tr>
<td>2508</td>
<td>Management of Respiratory and Cutaneous Reactions to Nonsteroidal Anti-Inflammatory Drugs</td>
</tr>
<tr>
<td>2810</td>
<td>Penicillin Allergy: An Old Problem with New Solutions</td>
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**Sunday, March 15, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>3008</td>
<td>Aspirin Challenges and Desensitizations in Aspirin-Exacerbated Respiratory Disease (AERD)</td>
</tr>
<tr>
<td>3303</td>
<td>Drug Allergy Evaluations and their Impact on Improved Quality of Life</td>
</tr>
<tr>
<td>3309</td>
<td>Venom immunotherapy: Flying Hymenoptera, Imported Fire Ant and Doses/Schedules/Duration for Each</td>
</tr>
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**Monday, March 16, 2020**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>4716</td>
<td>The Challenge of Evaluating Perioperative Anaphylaxis</td>
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</table>

**Food Allergy**

**Friday, March 13, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>1209</td>
<td>Food Allergy: Current Challenges and Future Directions</td>
</tr>
<tr>
<td>1521</td>
<td>Allied Health: Baked, Roasted and Raw: Considerations and Practical Questions for Eating Food Allergens</td>
</tr>
<tr>
<td>1803</td>
<td>Bright Horizons for Food Allergy: Vaccines, Biologics and More</td>
</tr>
</tbody>
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**Saturday, March 14, 2020**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>2001</td>
<td>Diagnostic Testing for Food Allergy in Patients with Atopic Dermatitis</td>
</tr>
<tr>
<td>2022</td>
<td>Allied Health: Wheat Allergy or Gluten Intolerance: Sifting the Facts</td>
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<tr>
<td>2308</td>
<td>Memory and Tolerance in Food Allergy</td>
</tr>
<tr>
<td>2312</td>
<td>Allied Health: The Burden of Non-Immunoglobulin E-Mediated Food Allergies</td>
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<tr>
<td>2401</td>
<td>Oral Food Challenges</td>
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<tr>
<td>2506</td>
<td>Food Immunotherapy and Biologics</td>
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<tr>
<td>2522</td>
<td>National Institute of Allergy and Infectious Diseases (NIAID): Newest Insights into the Connection Between Atopic Dermatitis and Food Allergy</td>
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<tr>
<td>2808</td>
<td>Food Protein-Induced Enterocolitis Syndrome (FPIES): Emerging Trends, Treatments and Advances</td>
</tr>
<tr>
<td>2813</td>
<td>Allied Health: Oh Baby! Infant Food Challenge Dilemmas</td>
</tr>
</tbody>
</table>
Introduction to Session Tracks

Sunday, March 15, 2020

3003  Incorporating Baked Products into the Management of Milk and Egg Allergy
3011  Assessing and Improving Quality of Life in Families Affected by Food Allergy
3308  Recent Accomplishments in Peanut Allergy Research: An NIAID Symposium
3312  Allied Health: Managing Your Food Allergy Patient in Clinical Practice
3401  Oral Food Challenges
3503  Occupational Asthma Due to Inhaled Food Allergens
3504  Managing Food Allergies (Immunoglobulin E (IgE) or Non-IgE Mediated) in Breast-Fed Infants
3553  Patients with Food Allergies Need to Avoid Packaged Food Products with Precautionary Labeling
3705  FAED: Tough Nut to Crack: Insights Into Diagnosis and Immunotherapy for Food Allergy

Monday, March 16, 2020

4004  Non-Immunoglobulin E-Mediated Food Allergy: A Practical Approach for Recognition and Treatment
4011  How to Best Use Component Testing for Food Allergy in Clinical Practice
4701  Update from the US Food and Drug Administration
4703  Food Immunotherapy: Lessons from Research Studies
4714  When, How and What to Feed: Practical Approach to Infants at High Risk for Food Allergy

Immunodeficiency

Friday, March 13, 2020

1205  One Size Does Not Fit All: Precision Medicine in Allergic Disease and Primary Immunodeficiencies (PID)
1207  An Update on Biologic Therapies for Allergic and Immunologic Conditions
1208  The Microbiome and Atopic Diseases: Target for Prevention
1501  How to Better Recapitulate Human Immune Traits and Diseases in a Mouse Model
1502  Lipids and Atopy
1520  Cutting-Edge Poster Discussion (Posters 001-005)
1522  Regulatory Lymphocytes: Many Roads to Tolerance
1802  Implementing Multi-Omics Approaches into Translational Allergy Research
1810  Cysteinyl Leukotrienes: Beyond Bronchoconstriction

Saturday, March 14, 2020

2502  Basophils Revisited: From Research to Diagnostic Tools
2553  The Impact of the Microbiome on Allergic Disease is Overrated
2801  JACI Year-in-Review Workshop
2812  Cutting-Edge Poster Discussion (Posters 276-280)

Sunday, March 15, 2020

3101  More Than a Barrier: The Roles of Airway Epithelium in Healthy and Allergic Metabolic and Immune Responses
3305  Regulation and Function of Inmate Lymphoid Cells in Health and Allergic Disease
3708  MAAI: The Role of the Microbiome in Allergic Disease

Monday, March 16, 2020

4302  Mind, Brain and Immunity
4308  Personalized Medicine in Immunology: How Close are We to Harnessing the Power of T Cells?
4310  Immunoglobulin E (IgE), Th2 and Eosinophils: Beyond Allergic Inflammation
4702  Interleukin-33 (IL-33): Raising the Alarmin
4704  Epithelial Barrier in Allergic Diseases
4712  The Impact of the Microbiome on Allergic Diseases

Immunodeficiency

Friday, March 13, 2020

1807  Understanding and Interpretation of Genetic Testing in the Evaluation of Primary Immunodeficiency

Saturday, March 14, 2020

2009  Best Practices for Immunoglobulin Therapy: From Writing Orders to Managing Adverse Reactions
2010  Precision Medicine and Primary Immunodeficiency
2304  Recognizing and Managing Autoimmune Manifestations in Common Variable Immune Deficiency
2313  Allied Health: Trouble Shooting with Subcutaneous Immunoglobulin
2510  When Low T Cell Receptor Excision Circles Don’t Equal Severe Combined Immunodeficiency: Idiopathic T Lymphopenia and More

Sunday, March 15, 2020

3009  A Nuts and Bolts Approach to the Workup of Immunodeficiency Disorders in Children
3508  Late Effects of Stem Cell Transplant for Primary Immunodeficiencies
3703  BCI: Precision Medicine in Primary Immunodeficiency: Are We There Yet?

Monday, March 16, 2020

4705  Immunodeficiency Beyond the Infections
4719  Genetic Testing for Immunodeficiency
Introduction to Session Tracks

Lung Diseases other than Asthma

Friday, March 13, 2020

1506 Allied Health: Maybe It’s More than Asthma

1515 Cannabis Exposure and Its Impact on Human Respiratory Health: Adjusting to the New Reality

Saturday, March 14, 2020

2007 Current and Novel Therapies for Chronic Cough

2306 Chronic Cough: Interaction Between Immunologic and Neurogenic Pathways

2505 Occupational Asthma and Asthma-COPD Overlap

2807 Evolving Concepts of Fungi and Allergic Respiratory Disease for Clinical and Research Practice

Sunday, March 15, 2020

3552 Concerns and Controversies of Vaping

Mast Cell/Eosinophilic Disorders

Thursday, March 12, 2020

0101 Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID): Organized by CEGIR and TIGERS

Friday, March 13, 2020

1102 Allied Health: Eosinophilic Esophagitis (EoE): Diagnosis, Treatment and Management

1517 Patient with Elevated Tryptase: Differential Diagnosis and Management

Saturday, March 14, 2020

2305 Cellular Partners of Mast Cells and Basophils in Homeostasis and Allergic Disease

2501 Successful Approaches to Eosinophilic Esophagitis: Long-Term Management Dilemmas

2503 Approach to the Patient with Eosinophilia

Sunday, March 15, 2020

3005 Mast Cell Activation Syndrome: Clarifying the Criteria for Patients and Colleagues

3311 Primary Disorders of Mast Cells: More Common than You Thought

3506 Confounders of Mast Cell Activation Syndrome (MCAS): Approaches to the Symptomatic Patient When the Criteria for MCAS are Not Met

3510 Mast Cell Activation Syndrome (MCAS) in Infants and Children: Are Adult Criteria Realistic?

Monday, March 16, 2020

4006 The Role of the Practicing Allergist in the Management of Eosinophilic Esophagitis (EoE)

4305 Eosinophilic Esophagitis (EoE): Novel Endotypes and Approaches to Management

4715 Mast Cells as Source and Target of Extracellular Vesicles: From Bench to the Bedside

Research Principles

Friday, March 13, 2020

1206 How to Survive as an Academic Translational Scientist Pursuing Asthma/Allergy/Immunology Research in the Current Funding Environment

Saturday, March 14, 2020

2011 Innovative Methods to Improve the Collection of Patient-Reported Outcomes (PROs)

Monday, March 16, 2020

4012 Partnering with Federally Qualified Health Centers to Advance Research, Education and Specialty Care in Allergy/Immunology for Underserved Patients

Rhinosinusitis/Ocular Allergy

Friday, March 13, 2020

1211 Introductory Rhinolaryngoscopy Course with Hands-On Learning

1505 Refractory Chronic Rhinosinusitis (CRS): When Does My Patient Need Surgery?

Saturday, March 14, 2020

2004 A Multidisciplinary Approach to the Surgical and Medical Management of Aspirin-Exacerbated Respiratory Disease

2012 Allied Health: When is Chronic Rhinitis Really Chronic Rhinosinusitis?

2311 Phenotyping Aspirin-Exacerbated Respiratory Disease (AERD): Heterogeneity of Nasal Polyps and the Role of Atopy in Aspirin-Exacerbated Respiratory Disease Patients

2504 What to Do with a Patient with Severe Chronic Rhinosinusitis

Sunday, March 15, 2020

3707 IRSO: Rhinitis and Rhinosinusitis: Looking Back and Looking Forward

Monday, March 16, 2020

4306 An Update on Ocular Allergy (OA) Diagnosis and Treatment
# Training and Career Development

**Thursday, March 12, 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>0601</td>
<td>2020 Program Literature Review: ABAI Continuous Assessment Study Course</td>
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**Friday, March 13, 2020**

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1011</td>
<td>2020 FIT Symposium</td>
</tr>
<tr>
<td>1012</td>
<td>2020 Chrysalis Project Program (Invitation Only)</td>
</tr>
<tr>
<td>1110</td>
<td>Developing and Maintaining Excellence in Allergy/Immunology Fellowship</td>
</tr>
<tr>
<td>1518</td>
<td>Engaging Your Learners at the Annual Meeting and at Home</td>
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**Saturday, March 14, 2020**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>2405</td>
<td>Career Paths in Allergy and Immunology</td>
</tr>
<tr>
<td>2511</td>
<td>Pathways to Success on a Clinician Educator Track</td>
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</table>
A podcast series featuring thought leaders from the world of allergy and immunology.

CME offered for select episodes

Conversations from the World of Allergy is a podcast series from the American Academy of Allergy, Asthma & Immunology (AAAAI).

It is the easiest way for busy healthcare providers and the general public to keep updated on medical topics in the A/I specialty. Subscribe today to make sure you never miss an episode.

Available now on iTunes, Google Play, Spotify and aaaaai.org.
Thursday, March 12, 2020

Chrysalis Project Registration (Invitation Only)

6:00 to 7:00 pm
Convention Center, 100 Level, Room 104
Registration restricted to selected participants of award program.

Friday, March 13, 2020

Course

1012  2020 Chrysalis Project Program (Invitation Only)
7:30 am to 1:15 pm
Marriott, Level 5, Grand Ballroom Salon E
Attendance restricted to selected participants of award program. Continental breakfast and boxed lunch included.
Credit: 0.00 CME/CE

7:30  Breakfast

8:00  Welcome from the Chrysalis Project Chairs
A. Wesley Burks, MD FAAAAI
Kimberly A. Risma, MD PhD FAAAAI

8:10  Welcome from the AAAAI President
David Lang, MD FAAAAI

8:15  Immunodeficiency
Thomas A. Fleisher, MD FAAAAI

8:45  Atopic Dermatitis
Donald Leung, MD PhD FAAAAI

9:15  Food Allergy
A. Wesley Burks, MD FAAAAI

9:45  Break

10:00  Asthma
Gurjit Khurana Hershey, MD PhD FAAAAI

10:30  Drug Allergy
Kimberly G. Blumenthal, MD MSc FAAAAI

11:00  Break

11:15  Hot Topics Discussion Session: Drug Allergy
Kimberly G. Blumenthal, MD MSc FAAAAI
Amy M. Dowden, MD FAAAAI

11:40  Hot Topics Discussion Session: Food Allergy
Emily C. McGowan, MD PhD FAAAAI
Sarita U. Patil, MD FAAAAI

12:05  Hot Topics Discussion Session: Asthma
Katherine N. Cahill, MD
Timothy P. Moran, MD PhD

12:30  Luncheon with FIT Mentors and Chrysalis Faculty

Saturday, March 14, 2020

Course

2405  Careers Paths in Allergy and Immunology
12:00 to 1:45 pm
Convention Center, 100 Level, Room 111
Attendance restricted to selected participants of the Chrysalis Project program and other medical student/resident meeting attendees. Boxed lunch included.
Credit: 0.00 CME/CE

12:00  Lunch

12:15  Welcome and Introduction
Rebecca Scherzer, MD FAAAAI

12:20  Academia: Clinical
Amy M. Scurlock, MD FAAAAI

12:30  Academia: Research
Mitchell H. Grayson, MD FAAAAI

12:40  Industry
Todd David Green, MD FAAAAI

12:50  Government
Melody C. Carter, MD FAAAAI

1:00  Private Practice
Andrew W. Murphy, MD FAAAAI

1:10  Summary
Rebecca Scherzer, MD FAAAAI

1:15  Breakout: Question & Answer
Nora A. Barrett, MD FAAAAI
Melody C. Carter, MD FAAAAI
Dorothy S. Cheung, MD FAAAAI
Mitchell H. Grayson, MD FAAAAI
Todd David Green, MD FAAAAI
Adina Kay Knight, MD FAAAAI
Andrew W. Murphy, MD FAAAAI
Princess Ogbogu MD FAAAAI
Amy M. Scurlock, MD
Kelly D. Stone, MD PhD FAAAAI

Chrysalis Project Class Photo and Reception (Invitation Only)

5:45 pm Class Photo (Chrysalis Project participants only)
6:00 to 7:00 pm Reception
Marriott, Level 4, Franklin 4
Private reception open to current Chrysalis participants, Chrysalis mentors, Chrysalis faculty, Chrysalis workgroup members, Program Directors Assembly and AAAAI Board of Directors. Prior RSVP required.
**Fellows-in-Training (FIT) Programming**

**Friday, March 13, 2020**

**Course**

| 1011 | 2020 FIT Symposium | 7:00 am to 1:15 pm  
|       | Marriott, Level 5, Grand Ballroom Salon B | Attendance restricted to current allergy/immunology Fellows-in-Training only. Continental breakfast and boxed lunch included.  
|       | Credit: 0.00 CME/CE | Moderator: Canting Guo, MD |
| 7:00 | Networking Breakfast |  
| 7:45 | Welcome and Introductions | Canting Guo, MD |
| 7:55 | Networking Organizations |  
| 8:05 | American Board of Allergy and Immunology (ABAI) | Michael R. Nelson, MD PhD FAAAAI |
| 8:15 | Eosinophilic Granulomatosis with Polyangiitis in the Era of Biologics | Michael E. Wechsler, MD |
| 8:55 | Welcome from AAAAI President | David M. Lang, MD FAAAAI |
| 9:05 | Evaluation and Management of Chronic Urticaria | David M. Lang, MD FAAAAI |
| 9:45 | Break |  
| 10:05 | Chronic Granulomatous Disease | Christa S. Zerbe, MD |
| 10:45 | Peanut Immunotherapy from Research Standpoint | Edwin H. Kim, MD FAAAAI |
| 10:55 | Peanut Immunotherapy from FDA Standpoint | Ronald L. Rabin, MD FAAAAI |
| 11:05 | Peanut Immunotherapy from Private Practice Standpoint | Justin C. Greiwe, MD FAAAAI |
| 11:15 | Peanut Immunotherapy Panel: Q&A Panel | Justin C. Greiwe, MD FAAAAI  
|       | Edwin H. Kim, MD FAAAAI | Ronald L. Rabin, MD FAAAAI |
| 11:35 | Break |  
| 11:55 | Accelerated Immunotherapy (Rush and Cluster) for Environmental Allergens | Mike Tankersley, MD MBA FAAAAI |
| 12:35 | Networking Lunch |  

**FIT Reception**

5:00 to 6:00 pm  
Marriott, Level 4, Franklin 4  
Sponsored by AstraZeneca.  
Private reception open to current allergy/immunology Fellows-in-Training only.

**Saturday, March 14, 2020**

**Workshop**

| 2657 | Interesting Cases I | 12:45 to 1:45 pm  
|       | Convention Center, Room 119B | Credit: 1.00 CME/CE  
|       | Moderators: Canting Guo, MD | David Khan, MD FAAAAI |
| 12:50 | Dual blockade of type 2 inflammation with mepolizumab and dupilumab for treatment of EGPA | Jessica Galant-Swaффord, MD |
| 1:00 | Eosinophilic Fasciitis Treated With Reslizumab | Susan Mansourian, MD |
| 1:10 | Cutaneous Mastocytosis Presenting as Anaphylaxis to Multiple Immunizations | Benjamin St. Clair, MD |
| 1:20 | Adult Onset Soy Anaphylaxis with Gly m 4 Sensitization | Brian Goodman, MD |
| 1:30 | On Pins And Needles: Recognizing Neuropathy As First Clinical Manifestation Of Eosinophilic Granulomatosis With Polyangiitis | Elizaveta Kalaidina, MD |

**Sunday, March 15, 2020**

**Workshop**

| 3557 | Interesting Cases II | 12:45 to 1:45 pm  
|       | Convention Center, Room 119B | Credit: 1.00 CME/CE  
|       | Moderators: Canting Guo, MD | Paul Dowling, MD FAAAAI |
| 12:50 | Anaphylaxis to Azithromycin in a 4-year-old Female with Negative Skin Prick and Intradermal Skin Testing | Saddiq Habiballah, MD |
| 1:00 | DAVID Syndrome: When Common Variable Immune Deficiency is More Than Hypogammaglobulinemia | JaneMarie Freeman, MD |
| 1:10 | A Sensation of Tongue Swelling When the Tongue Is Not Swollen: Factitious Angioedema | John Trickett, MD |
| 1:20 | Chronic granulomatous disease presenting as basilar meningitis and disseminated candidiasis | Paulina Tran, DO |
| 1:30 | Recurrent Thunderclap Headache: Think Rhinitis Medicamentosa, Not Birth of Athena | Hoang Pham, MD |
Assembly and Business Meetings

Program Directors Assembly (PDA) Business Meeting and Forum

Friday, March 13, 11:30 am to 1:15 pm
Marriott, Headhouse Tower, Level 3, Liberty A

11:30 Lunch

11:45 Program Directors Assembly Business Meeting
Paul Dowling, MD FAAAAI

11:55 Finding Time to Teach: Balancing RVUs with Education
T. Prescott Atkinson, MD PhD FAAAAI
Mark Dykewicz, MD FAAAAI
Princess Ogbogu, MD FAAAAI

12:55 ACGME RC Update
Rohit Katal, MD FAAAAI

1:05 Other Business
Paul Dowling, MD FAAAAI

Federation of RSLAAIS Assembly Forum, Business Meeting & Reception

Friday, March 13, 4:45 to 6:15 pm
Convention Center, 100 Level, Room 103B

4:45 Wine and Cheese Reception/Meet the RSLAAIS Governors Networking

5:05 RSLAAIS Assembly Business Meeting
Moderator: James H. Sussman, DO FAAAAI
Special Guest: David M. Lang, MD FAAAAI

5:30 “Foreseeing the Future – Assessing Our Specialty’s Strengths, Weaknesses, Opportunities and Threats”
Moderator: Weily Soong, MD FAAAAI
Panelists: Stuart Abramson, MD PhD FAAAAI
Susan Rudd Bailey, MD FAAAAI
Sharon Markovics MD FAAAAI
Ashwini Reddy, MD FAAAAI
Sheila Heitzig, JD MNM CAE

6:15 Adjourn

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GAIN CAMPAIGN
AAAAI Foundation

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Donate today at aaaaifoundation.org/give
2020 Advocacy Priorities
Engaging Members to:

• **Advocate** for fair and equitable reimbursement of allergy and immunology services

• **Educate** members of Congress on the practice of allergy, asthma and immunology

• **Encourage** ongoing federal investment in allergy and immunology research

• **Promote** penicillin allergy testing as a component of antibiotic stewardship

• **Support** Asthma in Schools Legislation

• **Protect** in-office compounding of allergen extracts
Thursday At-A-Glance

Thursday, March 12

6:00 AM
Registration 6:00 am - 7:00 pm

7:00 AM

8:00 AM
34th Annual Harold S. Nelson Military Allergy/Immunology Symposium
7:20 am - 3:15 pm

9:00 AM
Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID) - Organized by CEGIR and TIGERS
8:00 am - 5:00 pm

10:00 AM

11:00 AM

12:00 PM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

5:00 PM

6:00 PM

7:00 PM

Practical Workshops to Jumpstart Your Drug Allergy Assessments
8:00 am - 1:00 pm

Basic Aeroallergen Course®
8:30 am - 5:00 pm

2020 ABAI Continuous Assessment Program Literature Review Course
2:00 - 4:30 pm
## Thursday Scientific Program

### Thursday, March 12

#### Courses

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<th>Location</th>
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<tr>
<td>8:00</td>
<td>Welcome and Introduction</td>
<td>Convention Center, 100 Level, Room 113</td>
<td>7.00 CME/CE</td>
<td>Marc E. Rothenberg, MD FAAAAI</td>
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<tr>
<td>8:10</td>
<td>Introduction to CEGIR and TIGERS</td>
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<td>8:25</td>
<td>Physicians Partnering with Patients</td>
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<td>Physicians Partnering with Patients</td>
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<td>8:45</td>
<td>Epidemiology of EGID</td>
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<td>9:00</td>
<td>Endoscopic Features of EGID</td>
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<td>9:15</td>
<td>Defining EGID Pathology</td>
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<td>9:30</td>
<td>Consequences of Eosinophilic Esophagitis: Remodeling</td>
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<td>9:45</td>
<td>Role of the Allergist and Skin Testing in EoE</td>
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<td>10:00</td>
<td>Break</td>
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<td>10:15</td>
<td>Relationship Between Oral Immunotherapy (OIT) and EoE</td>
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<td>10:30</td>
<td>What We Know About Subcutaneous Immunotherapy (SCIT), Sublingual Immunotherapy (SLIT) and Oral Immunotherapy (OIT) for Aeroallergens in EoE</td>
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<td>10:45</td>
<td>EoE Pathogenesis</td>
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<td>11:00</td>
<td>Genetics of EoE</td>
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<td>Eosinophils in EoE</td>
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<td>T Cell Responses</td>
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<td>11:45</td>
<td>Single Cell Analysis of EoE</td>
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<td>12:30</td>
<td>Lunch</td>
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<td>12:45</td>
<td>Pro/Con: Frequent Endoscopy vs. Monitoring Symptoms</td>
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<td>1:15</td>
<td>Pro/Con: Diet vs. Steroid Therapy</td>
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<td>Pro/Con: Primary Endpoint: Histology vs. Clinical</td>
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</table>

#### Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID)

- Organized by CEGIR and TIGERS
- 8:00 am to 5:00 pm
- Convention Center, 100 Level, Room 113
- Credits: 7.00 CME/CE
- Moderator: Marc E. Rothenberg, MD FAAAAI

#### Breakthroughs in Understanding and Treating Eosinophilic Gastrointestinal Diseases (EGID) - Organized by CEGIR and TIGERS

- 8:00 am to 5:00 pm
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- Credits: 7.00 CME/CE
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**Welcome and Introduction**

**Introduction to CEGIR and TIGERS**

Glenn Furuta, MD

**Physicians Partnering with Patients**

Ellyn Kodroff, BS

**Physicians Partnering with Patients**

Wendy Book, MD

**Epidemiology of EGID**

Elizabeth T. Jensen, MPH PhD

**Endoscopic Features of EGID**

Ikue Hirano, MD

**Defining EGID Pathology**

Margaret H. Collins, MD

**Consequences of Eosinophilic Esophagitis: Remodeling**

Seema Sharma Aceves, MD PhD FAAAAI

**Role of the Allergist and Skin Testing in EoE**

Jonathan M. Spergel, MD PhD FAAAAI

**Break**

**Relationship Between Oral Immunotherapy (OIT) and EoE**

Kari Nadeau, MD PhD FAAAAI

**What We Know About Subcutaneous Immunotherapy (SCIT), Sublingual Immunotherapy (SLIT) and Oral Immunotherapy (OIT) for Aeroallergens in EoE**

Scott P. Commins, MD PhD

**EoE Pathogenesis**

Marc E. Rothenberg, MD PhD FAAAAI

**Genetics of EoE**

Leah C. Kottyan, PhD

**Eosinophils in EoE**

Bruce S. Bochner, MD FAAAAI

**T Cell Responses**

David A. Hill, MD PhD

**Single Cell Analysis of EoE**

Ting Wen, PhD


Pro Speaker: Steven J. Ackerman, PhD
Con Speaker: Joshua B. Wechsler, MD

**Lunch Break**

**Pro/Con: Frequent Endoscopy vs. Monitoring Symptoms**

Pro Speaker: Amanda Muir, MD
Con Speaker: Carla M. Davis, MD FAAAAI

**Pro/Con: Diet vs. Steroid Therapy**

Pro Speaker: Mirna Chehade, MD MPH
Con Speaker: Fred Dan Atkins, MD FAAAAI

**Pro/Con: Primary Endpoint: Histology vs. Clinical**

Pro Speaker: Nives Zimmermann, MD FAAAAI
Con Speaker: Robbie D. Pesek, MD

**Business Meeting, Award Presentations, Group Photo**
Thursday Scientific Program

Thursday, March 12

Courses (continued)

2:30  Aeroallergens Are a Major Trigger of EoE  
Pro Speaker: Maureen E. Bauer, MD  
Con Speaker: Amal H. Assa’ad, MD FAAAAI

3:00  Role of Multidisciplinary Team in Treating EGID  
Glenn Furuta, MD

3:15  Nutritional Aspects for EGID  
Kara Kliwer, PhD RD

3:30  Dietary Aspects for EGID  
Marion E. Groetch, MS RDN

3:45  Difficult to Treat EoE: Optimizing Proton Pump Inhibitors and Steroids  
Sanddeep K. Gupta, MD

4:00  EGID Beyond the Esophagus  
Nirmala Gonsalves, MD

4:15  Biologic and Emerging Therapies  
Evan S. Dellon, MD

4:30  Going Forward  
Michael Minnicozzi, PhD

4:45  Concluding Remarks/Question & Answer  
Marc E. Rothenberg, MD FAAAAI

Practical Workshops to Jumpstart Your Drug Allergy Assessments  
8:00 am to 1:15 pm  
Convention Center, 100 Level, Room 121  
Credits: 5.00 CME/CE

8:00  Developing a Beta-Lactam Allergy Evaluation Program with Key Collaborators  
Moderator: David Khan, MD FAAAAI

8:00  Allergy Panelists  
Antoine Azar, MD FAAAAI  
Eric M. Macy, MD FAAAAI  
Allison Ramsey, MD FAAAAI

8:20  Infectious Diseases Panelists  
Erica Seiguer Shenoy, MD PhD  
Alon Vaisman, MD

8:35  Pharmacy Panelists  
Mary Staicu, PharmD  
Kristin Alvarez, PharmD

8:50  Question & Answer

9:00  Developing Other Drug Allergy Testing Programs  
Moderator: Mariana C. Castells, MD PhD FAAAAI

9:00  Developing a Chemotherapy and Biologics Desensitization Program  
Aleena Banerji, MD FAAAAI  
David I. Hong, MD FAAAAI

9:30  Developing an NSAID and Aspirin Challenge Program  
Tanya M. Laidlaw, MD FAAAAI  
Rebecca Saff, MD PhD FAAAAI

10:00  All About Rashes: A Case-Based Tour of Drug-Induced Eruptions  
Moderator: Elizabeth J. Phillips, MD FAAAAI FIDSA

10:00  Severe Cutaneous Adverse Reactions  
Robert G. Micheletti, MD

10:20  Vesiculobulous Eruptions  
Arturo Saavedra, MD PhD

10:40  Thinking Beyond Drug Eruptions  
Misha Rosenbach

11:00  Hands-On Drug Allergy Testing Workshop  
Moderator: Kimberly G. Blumenthal, MD MSc FAAAAI

11:00  Immediate Hypersensitivity Testing for Drug Allergies  
Aleena Banerji, MD FAAAAI  
Autumn C. Guyer, MD FAAAAI  
Eric M. Macy, MD FAAAAI  
Cosby Stone, MD MPH

11:30  Delayed Hypersensitivity Testing for Drug Allergies  
Paul L. Bigliardi, MD  
Elizabeth J. Phillips, MD FAAAAI  
Rebecca Saff, MD PhD FAAAAI  
Jason A. Trubiano, MD

12:00  Discussing Practical Differences in Allergy Assessments for Specific Populations  
Moderator: Elizabeth Phillips, MD FAAAAI

12:00  Children Panels  
Moshe Ben-Shoshan, MD FAAAAI  
Ana Dieun Broyles, MD FAAAAI

12:15  Pregnant Women Panels  
Eric M. Macy, MD FAAAAI  
Anna R. Wolfson, MD

12:30  Multiple Drug Allergy Syndrome Panels  
Melissa Iammatteo, MD  
Eric M. Macy, MD FAAAAI

12:45  Question & Answer

Basic Aeroallergen Course  
8:30 am to 5:00 pm  
Convention Center, 100 Level, Room 126  
Credits: 7.00 CME/CE  
Moderator: Estelle Levitin, PhD FAAAAI

8:30  Welcome and Introduction to Course

8:35  Introduction to Fungal Aerobiology  
W. Elliot Horner, PhD LEED AP FAAAAI

9:10  Morphology of Fungal Spores  
Estelle Levitin, PhD FAAAAI

10:00  Hands-On Instruction; Question and Answer  
Moderator: Estelle Levitin, PhD FAAAAI

11:40  The Value of Air Sampling for your Practice and for the AAAAI  
Kraig Jacobson, MD FAAAAI

12:00  Lunch Break

12:45  Setting up a Sampling Station  
Brett J. Green, PhD FAAAAI  
Estelle Levitin, PhD FAAAAI

2:10  Pollen Aerobiology Part I  
Kraig Jacobson, MD FAAAAI

3:00  Pollen Aerobiology Part II  
Richard W. Weber, MD FAAAAI

3:40  Hands-On Instruction; Question and Answer
Courses (continued)

Estelle Levetin, PhD FAAAAI

0601 2020 ABAI Continuous Assessment Program Literature Review Course
2:00 to 4:30 pm
Convention Center, 100 Level, Room 118
Credits: 2.50 CME
Moderator: Denise A. DiPrimio-Kalman, DO FAAAAI

2:00 Immune Deficiency/Autoimmunity/Other Immune and Inflammatory Disorders
Teresa K Tarrant, MD FAAAAI

2:35 Mast Cell Disorders/Eosinophil Disorders/Anaphylaxis/Drug, Insect and Vaccine Allergy
Carla M Davis, MD FAAAAI

3:10 Asthma and Other Lung Disorders/Rhinosinusitis/Ocular disorders/Allergy Testing and Therapeutics
TBD

3:45 Food Allergy/Urticaria and Angioedema/Other Allergic and Immunologic Skin Disorders
John M. Kelso, MD FAAAAI
Get the information and resources you need to be successful at the **Practice Management Hub**

Convention Center, 100 Level, Broad Street Atrium

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**Practice Management Hub Expert Office Hours**

**Saturday, March 14, 2020**

9:00 – 10:00 am  
**Mohamed Yassin, MD FAAAAI**  
AAAAI Practice Management Workshop

10:00 - 11:00 am  
**Teresa Thompson, BS, CPC, CMSCS, CCC**  
Solving your coding conundrums

11:00 am – 12:00 pm  
**Qura-Tul-Ain Rashid, MD**  
Telemedicine strategies for your practice

11:15 am – 12:15 pm  
**David Khan, MD FAAAAI**  
AAAAI Advocacy Committee Chair  
Expanding Penicillin Allergy Testing in your practice

12:00 – 1:00 pm  
**Gary Steven, MD PhD FAAAAI**  
Medical Director, The AAAAI Registry

2:00 – 3:00 pm  
**Priya Bansal, MD FAAAAI**  
Buy and Bill for Biologics

3:00 – 4:00 pm  
**Teresa Thompson, BS, CPC, CMSCS, CCC**  
Coding questions for reporting quality measures

**Sunday, March 15, 2020**

9:45 – 10:45 am  
**Paul Williams, MD FAAAAI**  
Payer Relations  
NAEPP Asthma Guidelines 2020 Update

11:00 am – 12:00 pm  
**James Sussman, DO FAAAAI**  
Engaging with your local RSL

12:00 – 1:00 pm  
**Gary Steven, MD PhD FAAAAI**  
Medical Director, The AAAAI Registry

1:00 – 2:00 pm  
**Sunit Jariwala, MD FAAAAI**  
Healthcare Apps for you and your patients

2:00 – 3:00 pm  
**Andrew Murphy, MD FAAAAI**  
Achieving USP Chapter <797> Compounding Compliance Now
### Allied Health Workshops

| 1102 | Allied Health: Eosinophilic Esophagitis (EoE): Diagnosis, Treatment and Management  
7:15 to 8:30 am  
Convention Center, 100 Level, Room 119B  
Credits: 1.25 CME/CE  
Moderator: Jaime E. Ross, RN MSN |
| --- | --- |
| 7:15 | EoE: Diagnosis and Research  
Mirna Chehade, MD MPH |
| 7:40 | Feeding Difficulties with EoE  
April Clark, RDN CSP |
| 8:05 | Education and Dietary Management  
Michele M. Shuker, MS RD CSP LDN |

| 1103 | Allied Health: Approach to Angioedema: Case-Based Learning  
7:15 to 8:30 am  
Convention Center, 100 Level, Room 109  
Credits: 1.25 CME/CE  
Moderator: John T. Anderson, MD |
| --- | --- |
| 7:15 | Differential Diagnosis of Angioedema  
Douglas T. Johnston, DO FAAAAI |
| 7:40 | Guideline Based Approach to Treatment of Hereditary Angioedema  
Raffi Tachdjian, MD MPH FAAAAI |
| 8:05 | Approach to Angioedema with Normal Labs  
Paula J. Busse, MD FAAAAI |

### Courses

| 1011 | 2020 FIT Symposium  
7:00 am to 1:15 pm  
Marriott, Level 5, Grand Ballroom Salon B  
Attendance restricted to current allergy/immunology Fellows-in-Training only. Continental breakfast and boxed lunch included.  
Credit: 0.00 CME/CE  
Moderator: Canting Guo, MD |
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<tbody>
<tr>
<td>7:00</td>
<td>Networking Breakfast</td>
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</table>
| 7:45 | Welcome and Introductions  
Canting Guo, MD |
| 7:55 | Networking Organizations |
| 8:05 | American Board of Allergy and Immunology (AAAAI)  
Michael R. Nelson, MD PhD FAAAAI |
| 8:15 | Eosinophilic Granulomatosis with Polyangiitis in the Era of Biologics  
Michael E. Wechsler, MD |
| 8:55 | Welcome from AAAAI President  
David M. Lang, MD FAAAAI |
| 9:05 | Evaluation and Management of Chronic Urticaria  
David M. Lang, MD FAAAAI |
| 9:45 | Break |
| 10:05 | Chronic Granulomatous Disease  
Christa S. Zerbe, MD |
| 10:45 | Peanut Immunotherapy from Research Standpoint  
Edwin H. Kim, MD FAAAAI |
| 10:55 | Peanut immunotherapy from FDA Standpoint  
Ronald L. Rabin, MD FAAAAI |
| 11:05 | Peanut Immunotherapy from Private Practice Standpoint  
Justin C. Greiwe, MD FAAAAI |
| 11:15 | Peanut Immunotherapy Panel: Q&A Panel  
Justin C. Greiwe, MD FAAAAI  
Edwin H. Kim, MD FAAAAI  
Ronald L. Rabin, MD FAAAAI |
| 11:35 | Break |
| 11:55 | Accelerated Immunotherapy (Rush and Cluster) for Environmental Allergens  
Mike Tankersley, MD MBA FAAAAI |
| 12:35 | Networking Lunch |

| 1012 | 2020 Chrysalis Project Program (Invitation Only)  
7:30 am to 1:15 pm  
Marriott, Level 5, Grand Ballroom Salon E  
Attendance restricted to selected participants of award program. Continental breakfast and boxed lunch included.  
Credit: 0.00 CME/CE |
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<tr>
<td>7:30</td>
<td>Breakfast</td>
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</table>
| 8:00 | Welcome from the Chrysalis Project Chairs  
A. Wesley Burks, MD FAAAAI  
Kimberly A. Risma, MD PhD FAAAAI |
| 8:10 | Welcome from the AAAAI President  
David Lang, MD FAAAAI |
| 8:15 | Immunodeficiency  
Thomas A. Fleisher, MD FAAAAI |
| 8:45 | Atopic Dermatitis  
Donald Leung, MD PhD FAAAAI |
Courses (continued)

9:15  Food Allergy  
     A. Wesley Burks, MD FAAAAI
8:00  Asthma  
     Gurjit Khurana Hershey, MD PhD FAAAAI
10:30 Drug Allergy  
     Kimberly G. Blumenthal, MD MSc FAAAAI
11:00 Break
11:15 Hot Topics Discussion Session: Drug Allergy  
     Kimberly G. Blumenthal, MD MSc FAAAAI
     Amy M. Dowden, MD FAAAAI
11:40 Hot Topics Discussion Session: Food Allergy  
     Emily C. McGowan, MD PhD FAAAAI
     Sarita U. Patil, MD FAAAAI
12:05 Hot Topics Discussion Session: Asthma  
     Katherine N. Cahill, MD
     Timothy P. Moran, MD PhD
12:30 Luncheon with FIT Mentors and Chrysalis Faculty

Developing and Maintaining Excellence in Allergy/Immunology Fellowship

8:00 to 11:30 am
     Marriott, Headhouse Tower, Level 3, Independence Ballroom
     Credits: 3.00 CME/CE
     Moderator: Christopher Chang, MD PhD FAAAAI

1201 2020 Difficult Cases

8:30 to 11:30 am
     Convention Center, 400 Level, Terrace Ballroom II
     Credits: 3.00 CME/CE
     Moderator: Benjamin T. Prince, MD MCSI FAAAAI

8:30 What's Up Your Nose?  
     Kara J. Wada, MD
     Andrew A. White, MD FAAAAI
9:00 Mystery Rashes: More than Skin Deep  
     Corinne S. Happel, MD FAAAAI
9:30 Next Steps When Genetic Testing is Unrevealing  
     Janet S. Chou, MD
     Sarah E. Henricksen, MD PhD
10:00 When Does Autoimmunity Warrant an Evaluation for a Primary Immunodysregulatory Disease?  
     Megan A. Cooper, MD
     Juhee Lee, MD
10:30 Puzzling Cases of Angioedema and Evolving Treatment Paradigms  
     Paula J. Busse, MD FAAAAI
     Tukisa D. Smith, MD MS
11:00 What to Do About That Darn Eosinophil?  
     Juan P. Abonia, MD
     Shajitha Melethil, MD

1202 Practice Management Pearls

8:30 to 11:30 am
     Convention Center, 100 Level, Room 118
     Credits: 3.00 CME/CE
     Moderator: Melinda M. Rathkopf, MD FAAAAI

8:30 Physician Burnout: Symptoms, Signs and Beyond  
     Michael R. Rupp, MD FAAAAI
9:00 Expanding the Scope of your Medical Practice  
     Priya J. Bansal, MD FAAAAI
9:30 Medical Office Human Resources: “Turn the Headache to a Blessing”  
     Cheryl K. Bernstein, RN BSN CCRC
10:00 Practice Transitions: Buying, Selling, and Retiring  
     Marshall Paul Grodofsky, MD FAAAAI
10:30 Where Did My Money Go?: Fraud and Embezzlement  
     Mohamed Yassin, MD FAAAAI
11:00 Medical Coding and Billing Updates: “Don’t Leave Money on the Table”  
     Teresa Thompson, CPC CMSCS CCC
### Courses (continued)

#### 1203 More than Skin Deep: Diagnosing Systemic Diseases in Patients Presenting with Rashes in Allergy and Immunology Clinics

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<tr>
<td>8:30</td>
<td>Rash Diagnostics: An Overview of Diagnostic Tools for Allergic Rashes</td>
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<td>David Cohen, MPH MD</td>
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<td>9:00</td>
<td>Atopic Dermatitis: When to Suspect Systemic Disease or Alternate Diagnoses</td>
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<td>Jonathan I. Silverberg, MD PhD MPH</td>
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<td>9:30</td>
<td>Contact Dermatitis: When to Suspect Systemic Disease or Alternate Diagnoses</td>
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<td>Luz S. Fonacier, MD FAAAAI</td>
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<td>10:00</td>
<td>Primary Immunodeficiency: Rashes That Suggest Immunodeficiency and When to Pursue Immune Evaluation in Patients Presenting with Rashes</td>
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<td>Heather K. Lehman, MD FAAAAI</td>
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<td>10:30</td>
<td>Mast Cell Disease: Rashes That Suggest Mast Cell Disease and When to Consider Alternate Etiologies</td>
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<td>Melody C. Carter, MD FAAAAI</td>
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<td>11:00</td>
<td>Autoimmune or Autoinflammatory Disease: Rashes That Suggest Immune Dysregulation and When to Pursue Immune Evaluation in Patients Presenting with Rashes</td>
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<td>Megan A. Cooper, MD</td>
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#### 1204 Problem-Based Learning (PBL): A Case of Severe Uncontrolled Asthma

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<tr>
<td>8:30</td>
<td>PBL Case Presentation</td>
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<td>Ray S. Davis, MD FAAAAI</td>
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<td>9:30</td>
<td>Differential Diagnosis and Phenotypes of Severe Uncontrolled Asthma</td>
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<td>Faoud Terrence Ishmael, MD PhD FAAAAI</td>
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<td>9:55</td>
<td>Biologics: Risks vs. Benefits in Severe Uncontrolled Asthma</td>
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<td>Reynold A. Panettieri, Jr., MD</td>
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<td>10:45</td>
<td>Use of Bronchial Thermoplasty and Its Long Term Outcomes</td>
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<td>Michael E. Wechsler, MD</td>
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<td>10:20</td>
<td>Nuts and Bolts of a Shared Decision Making Discussion All Allergists Should Know</td>
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<td>Patricia Marik, PsyD</td>
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<td>11:10</td>
<td>Question &amp; Answer</td>
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#### 1205 One Size Does Not Fit All: Precision Medicine in Allergic Disease and Primary Immunodeficiencies (PID)

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<tr>
<td>8:30</td>
<td>From Bench to Bedside: How Biologics Come Alive</td>
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<td>Bruce S. Bochner, MD FAAAAI</td>
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<td>9:05</td>
<td>Mechanism-Based Precision Therapy for the Treatment of Primary Immunodeficiency Diseases</td>
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<td>Jennifer W. Leiding, MD FAAAAI</td>
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#### 1206 How to Survive as an Academic Translational Scientist Pursuing Asthma/Allergy/Immunology Research in the Current Funding Environment

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>8:30</td>
<td>NIH Funding Opportunities and Strategies for Success</td>
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<td>Alkis Togias, MD FAAAAI</td>
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<td>9:15</td>
<td>Strategies for Writing a Fundable NIH Grant</td>
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<td>Nora A. Barrett, MD FAAAAI</td>
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<td>10:15</td>
<td>Break</td>
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<tr>
<td>10:30</td>
<td>Review of Submitted Grant Proposals</td>
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<td>Nora A. Barrett, MD FAAAAI</td>
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<td>Joshua A. Boyce, MD FAAAAI</td>
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<td>Supinda Bunyavanich, MD MPH FAAAAI</td>
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<td>Elizabeth C. Matsui, MD MHS FAAAAA</td>
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Courses (continued)

1207  
**An Update on Biologic Therapies for Allergic and Immunologic Conditions**
8:30 to 11:30 am  
Convention Center, 400 Level, Terrace Ballroom IV  
Credits: 3.00 CME/CE  
Moderators: Giselle S. Mosnaim, MD MS FAAAAI  
Paul V. Williams, MD FAAAAI  

8:30  
**Biologics and Asthma**  
Thomas B. Casale, MD FAAAAI  

9:00  
**Biologics and Atopic Dermatitis**  
Welly Soong, MD FAAAAI  

9:30  
**Biologics and Nasal Polyps**  
Claus Bachert, MD PhD

10:00  
**Emerging Biologics for Eosinophilic Esophagitis**  
Evan S. Dellon, MD MPH

10:30  
**Biologics and Adjunctive Therapies for Food Anaphylaxis**  
Yamini Virkud, MD FAAAAI

11:00  
**Biologics in the Management of Chronic Spontaneous Urticaria and Hereditary Angioedema**  
Allen P. Kaplan, MD FAAAAI

1208  
**The Microbiome and Atopic Diseases: Target for Prevention**
8:30 to 11:30 am  
Convention Center, 100 Level, Room 121  
Credits: 3.00 CME/CE  
Moderator: Avraham Beigelman, MD MSCI FAAAAI

9:15  
**How the Microbiome Triggers and Modulates Atopic Diseases**  
Susan V. Lynch, PhD

10:00  
**Viral Infections and Asthma Prevention**  
Harald E. Renz, MD FAAAAI

10:45  
**Pre- and Probiotics for the Prevention and Treatment of Atopic Diseases**  
Fernando D. Martinez, MD

1209  
**Food Allergy: Current Challenges and Future Directions**
8:30 to 11:30 am  
Convention Center, 400 Level, Terrace Ballroom III  
Credits: 3.00 CME/CE  
Moderator: Antonella M. Muraro, MD PhD  

8:30  
**New Trends in Food Allergy Epidemiology and Quality of Life**  
Ruchi S. Gupta, MD MPH

9:00  
**Pathways to Food Allergy Prevention**  
Corinne Keet, MD MS PhD

9:30  
**Summary of the Updated Workgroup Report on Conducting Oral Food Challenges**  
J. Andrew Bird, MD FAAAAI

10:00  
**Identifying Patients and Assessing Risks**  
Amy M. Scurluck, MD

10:30  
**Special Considerations: Infants, Adults and Food Protein-Induced Enterocolitis Syndrome**  
Stephanie A. Leonard, MD FAAAAI

11:00  
**Is Food Immunotherapy Ready for Prime Time?**  
Brian P. Vickery, MD FAAAAI

1210  
**Improving Cross-Cultural Communication Between Allergy/Immunology Providers and Patients**
8:30 to 11:30 am  
Convention Center, 100 Level, Room 122B  
Credits: 3.00 CME/CE  
Moderator: Princess Ogbougi, MD FAAAAI  
Andrea J. Aptor, MD MA MS FAAAAI

8:40  
**Illness Representation: Non-Biomedical Views of Symptoms, Disease and Treatment**  
Urmil A. Desai, MD MS

8:50  
**Implicit Bias: What Is It and How Do We Combat It?**  
Benjamin D. Reese, PsyD

9:00  
**Delivering Patient-Centered Care to Patients of Varied Cultural Backgrounds**  
Maureen George, PhD RN AE-C

9:10  
**Small Group Discussions**

10:30  
**Applying What You Learned: Case Discussion, Question and Answer, and Post-Test**

1211  
**Introductory Rhinolaryngoscopy Course with Hands-On Learning**
8:30 to 11:30 am  
Convention Center, 100 Level, Room 122B  
Credits: 3.00 CME/CE  
Moderator: Jerald W. Koepke, MD FAAAAI

8:30  
**Introduction to Rhinolaryngoscopy**

9:30  
**Hands-On Rhinoscopy Instruction**  
Instructors: Allen D. Adinoff, MD FAAAAI  
David Elkayam, MD  
Kevin Murphy, MD FAAAAI  
Grant C. Olson, MD  
Donald W. Pulver, MD FAAAAI

1212  
**New Developments in Mechanisms of Aspirin-Exacerbated Respiratory Disease (AERD)**
8:30 to 11:30 am  
Convention Center, 100 Level, Room 113  
Credits: 3.00 CME/CE  
Moderator: Marek L. Kowalski, MD PhD

8:30  
**Insights into Mast Cell Dysregulation in AERD: Transcriptional Profiling of Sinus Tissue Mast Cells**  
Daniel F. Dwyer, PhD

8:55  
**Innate Lymphoid Cell Recruitment and Activation in AERD**  
Taylor A. Doherty, MD FAAAAI

9:20  
**Regulation of Local Immunoglobulin Production in Nasal Tissues: A Key to Pathogenesis**  
Kathryn E. Hulse, PhD

9:45  
**Epithelial Barrier Dysregulation in Nasal Polyp and Asthma Pathogenesis**  
Noam A. Cohen, MD PhD

10:10  
**ILC2s in Nasal Polyps**  
Atsushi Kato, PhD

10:35  
**Molecular Phenotyping of Asthma Using Profiles of Urinary Lipid Mediators**  
Johan Kolmert

11:00  
**Control of Mast Cell Function in AERD**  
Katherine N. Cahill, MD
Friday Scientific Program

Allied Health Advance Practice Course

1213 Allied Health Advanced Practice Course: Health Literacy in the Age of the Internet: Combating Dr. Google
8:30 to 11:30 am
Convention Center, 100 Level, Room 108
Credits: 3.00 CME/CE
Moderator: Karen L. Gregory, DNP APRN-BC RRT AE-C

8:30 Food Allergy: Fact and Fiction
Kim E. Mudd, RN MSN

9:00 Dr. Google Says...“How to Use Social Media as a Patient Education Tool”
David R. Stukus, MD FAAAAI

9:30 Debunking the Myths of Immunology
Mary Elizabeth Younger, CRNP PhD

10:00 Vaccine Myths: What Does the Literature Say?
TBD

10:30 The Good, The Bad and The Expensive: Allergy Testing
Jennifer A. Dantzer, MD

11:00 Dietary Management in A/I: The Fallacy of the Magic Diet
Marion E. Groetch, MS RDN

Seminars
Boxed lunch included. Sessions and meals are limited to 30 people.

1501 How to Better Recapitulate Human Immune Traits and Diseases in a Mouse Model
12:00 to 1:00 pm
Marriott, Level 4, Franklin 3
Continental Breakfast or Boxed Lunch included. Sessions and meals are limited to 30 people.
Credits: 1.00 CME/CE
Discussion Leaders: Rafeul Alam, MD PhD FAAAAI
Simon Hogan, PhD

1502 Lipids and Atopy
12:00 to 1:00 pm
Marriott, Level 4, Franklin 4
Credits: 1.00 CME/CE
Discussion Leaders: Nora A. Barrett, MD FAAAAI
Joshua A. Boyce, MD FAAAAI

1503 The Environment, Asthma and Obesity: What Are the Relationships?
12:00 to 1:00 pm
Marriott, Level 4, Franklin 5
Credits: 1.00 CME/CE
Discussion Leaders: Erick Forno, MD MPH
Perdita Permaul, MD FAAAAI

1504 Air Sampling and Analysis: Current Approaches and Future Developments
12:00 to 1:00 pm
Marriott, Level 4, Franklin 6
Credits: 1.00 CME/CE
Discussion Leaders: Leonard Bielory, MD FAAAAI
Estelle Levetin, PhD FAAAAI

1505 Refractory Chronic Rhinosinusitis (CRS): When Does My Patient Need Surgery?
12:00 to 1:00 pm
Marriott, Level 4, Franklin 7
Credits: 1.00 CME/CE
Discussion Leaders: Joseph K. Han, MD FAAAAI
Robert C. Kern, MD

Allied Health Seminar

1506 Allied Health: Maybe It’s More than Asthma
12:00 to 1:00 pm
Convention Center, 100 Level, Room 110
Credits: 1.00 CME/CE
Discussion Leaders: Catherine Kier
Marciarose Winston, MSN CPNP AE-C

Workshops

1510 JACI: In Practice Year-in-Review Workshop
12:00 to 1:15 pm
Convention Center, 400 Level, Terrace Ballroom I
Credits: 1.25 CME/CE
Moderator: Michael Schatz, MD MS FAAAAI
12:00 Asthma
Robert S. Zeiger, MD PhD FAAAAI
12:25 Food Allergy and Anaphylaxis
Scott H. Sicherer, MD FAAAAI
12:50 Drug Allergy and Urticaria/Angioedema
David Khan, MD FAAAAI

1511 Bring Novel Ideas to Project Development: Advancing Allergy/Immunology Practice
12:00 to 1:15 pm
Convention Center, 100 Level, Room 121
Credits: 1.25 CME/CE
Moderator: Andrew W. Murphy, MD FAAAAI
12:00 How Does One Identify Concerns About the Practice of A/I?
James H. Sussman, DO FAAAAI
12:25 You Have an Idea: Now What?
Priya J. Bansal, MD FAAAAI
12:50 Process Development Within the AAAAI: The Nitty Gritty Details
Weily Soong, MD FAAAAI
### Friday Scientific Program

**Friday, March 13**

#### Workshops (continued)

<table>
<thead>
<tr>
<th>Workshop</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>1512</td>
<td>Cannabis Exposure and Its Impact on Human Respiratory Health: Adjusting to the New Reality</td>
<td>12:00</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.25 CME/CE</td>
<td>William S. Silvers, MD FAAAAI</td>
</tr>
<tr>
<td>1513</td>
<td>Identifying and Correcting Dysfunctional Breathing Techniques in Athletes with Asthma</td>
<td>12:00</td>
<td>Convention Center, 100 Level, Room 113</td>
<td>1.25 CME/CE</td>
<td>Justin C. Greiwe, MD FAAAAI</td>
</tr>
<tr>
<td>1514</td>
<td>Biologic Therapy Throughout Childhood</td>
<td>12:00</td>
<td>Convention Center, 100 Level, Room 115</td>
<td>1.25 CME/CE</td>
<td>Andrew H. Liu, MD FAAAAI</td>
</tr>
<tr>
<td>1515</td>
<td>Subcutaneous Immunotherapy: Cross-Reactivity, Extract Stability and Optimum Dosing</td>
<td>12:00</td>
<td>Convention Center, 100 Level, Room 118</td>
<td>1.25 CME/CE</td>
<td>David I. Bernstein, MD FAAAAI</td>
</tr>
<tr>
<td>1516</td>
<td>Patient with Elevated Tryptase: Differential Diagnosis and Management</td>
<td>12:00</td>
<td>Convention Center, 100 Level, Room 126</td>
<td>1.25 CME/CE</td>
<td>Cem Akin, MD PhD FAAAAI</td>
</tr>
<tr>
<td>1517</td>
<td>Engaging Your Learners at the Annual Meeting and at Home</td>
<td>12:00</td>
<td>Convention Center, 100 Level, Room 120C</td>
<td>1.25 CME/CE</td>
<td>Lily Pien, MD FAAAAI</td>
</tr>
</tbody>
</table>

**1512** Anaphylaxis: New Challenges  
12:00 to 1:15 pm  
Convention Center, 400 Level, Terrace Ballroom III  
Credits: 1.25 CME/CE  
Moderator: Julia E. Upton, MD FAAAAI

12:00 Current Challenges in Managing Anaphylaxis in Public Spaces in an Increasingly Mobile Society  
Julie Wang, MD FAAAAI

Antonella Cianferoni, MD PhD FAAAAI

12:50 Risk of Anaphylaxis When Mast Cells Go Wild  
Olajumoke Fadugba, MD

**1513** Identifying and Correcting Dysfunctional Breathing Techniques in Athletes with Asthma  
12:00 to 1:15 pm  
Convention Center, 100 Level, Room 113  
Credits: 1.25 CME/CE  
Moderator: Justin C. Greiwe, MD FAAAAI

12:00 Addressing Mental Toughness and Resiliency: Using Mental Skills Training as Part of a Multi-Modal Approach to Proper Breathing in Asthmatic Athletes  
Joanna Zeiger, MS PhD NASM-CES

12:25 Complementary Treatment Options: Exploring Non-Pharmacologic Treatments, Breathing Exercises and Training for Athletes With Asthma  
Louis-Philippe Boulet, MD

12:50 Understanding and Controlling Breathing: How to Conduct Postural and Breathing Assessments for Athletes with Asthma to Help Improve Control, Anxiety and Athletic Performance  
Jae Gruenke, GCFP

**1514** Biologic Therapy Throughout Childhood  
12:00 to 1:15 pm  
Convention Center, 100 Level, Room 115  
Credits: 1.25 CME/CE  
Moderator: Andrew H. Liu, MD FAAAAI

12:00 Management Strategies Before Biologics and When to Consider Biologics  
Leonard B. Bacharier, MD FAAAAI

12:25 Efficacy of Biologic Therapies for Asthma in Children  
Theresa W. Guilbert, MD MS

12:50 Choosing a Biologic Therapy for Your Pediatric Patient Based on Clinical Characteristics and Biomarkers  
Daniel J. Jackson, MD FAAAAI

**1515** Subcutaneous Immunotherapy: Cross-Reactivity, Extract Stability and Optimum Dosing  
12:00 to 1:15 pm  
Convention Center, 100 Level, Room 118  
Credits: 1.25 CME/CE  
Moderator: David I. Bernstein, MD FAAAAI

12:00 Cross-Reactivity Patterns and Allergen Stability Relevant to Prescribing Allergen Immunotherapy  
Tolly Epstein, MD MS FAAAAI

12:25 A Review of the Math-Free Guides Recently Published for Allergen Doses and Glycerin Concentrations  
Harold S. Nelson, MD FAAAAI

12:50 Case Scenarios and How One May Formulate a Patient’s Immunotherapy Prescription  
Christopher W. Calabria, MD FAAAAI

**1516** Patient with Elevated Tryptase: Differential Diagnosis and Management  
12:00 to 1:15 pm  
Convention Center, 100 Level, Room 126  
Credits: 1.25 CME/CE  
Moderator: Cem Akin, MD PhD FAAAAI

12:00 Mastocytosis: Is Elevated Tryptase Always Necessary for Diagnosis?  
Joseph H. Butterfield, MD FAAAAI

12:25 Hereditary Alpha Tryptasemia: A Common Genetic Variant  
Jonathan Lyons, MD

12:50 Laboratory Diagnosis of Anaphylaxis: Role of Tryptase  
Lawrence B. Schwartz, MD PhD FAAAAI

**1517** Engaging Your Learners at the Annual Meeting and at Home  
12:00 to 1:15 pm  
Convention Center, 100 Level, Room 120C  
Credits: 1.25 CME/CE  
Moderator: Lily Pien, MD FAAAAI

12:00 Adult Learning Principles that Enhance Presentations  
Gerald Lee, MD

12:25 Engaging the Audience in Large Group Settings  
Benjamin T. Prince, MD MCSI FAAAAI

12:25 Engaging the Audience in Small Group Settings  
Kristin C. Sokol, MD MS MPH FAAAAI

12:25 Engaging the Audience by Incorporating Education Technologies  
Bharat Kumar, MD

Iris M. Otani, MD
**Friday Scientific Program**

**Workshops (continued)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Location</th>
<th>Credits</th>
<th>Moderators</th>
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</thead>
<tbody>
<tr>
<td>1519</td>
<td>Team Trivia: Do You Know Your Biologics?</td>
<td>Convention Center, 100 Level, Room 122A</td>
<td>1.25 CME/CE</td>
<td>Tho Q. Truong, MD</td>
</tr>
<tr>
<td>12:00</td>
<td>Biologics Indicated for Asthma and Allergic Skin Disease</td>
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<td>Mildred Kwan, MD PhD</td>
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<tr>
<td>12:25</td>
<td>Biologics Frequently Used in Common Rheumatologic Disorders</td>
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<td>Teresa K. Tarrant, MD FAAAAI</td>
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<tr>
<td>12:50</td>
<td>When to Use Biologics for Primary Immunodeficiency Disorders</td>
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<td>Lisa R. Forbes Satter, MD FAAAAI</td>
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<tbody>
<tr>
<td>1520</td>
<td>Cutting-Edge Poster Discussion (Posters 001-005)</td>
<td></td>
<td>1.25 CME/CE</td>
<td>Magdalena M. Gorksa, MD PhD FAAAAI / Taylor A. Doherty, MD FAAAAI</td>
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<tr>
<td>12:00</td>
<td>Poster Viewing</td>
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<tr>
<td>12:40</td>
<td>The Molecular and Epigenetic Mechanisms of Innate Lymphoid Cells (ILCs) Memory and its Relevance for Asthma</td>
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<td>12:45</td>
<td>IL-33 Plays a Key Role in Development of Th2-type T Cells That are Resident in Lung Tissues for a Prolonged Period</td>
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<td>12:50</td>
<td>The RNA-Binding Protein RBM3 Negatively Regulates Group 2 Innate Lymphoid Cells (ILC2s) and Lung Eosinophilia</td>
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<tr>
<td>12:55</td>
<td>Androgen Receptor Signaling Attenuates ST2+ Treg, Th2 cells and Eosinophilic Inflammation</td>
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**Presidential Plenary**

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<th>Time</th>
<th>Title</th>
<th>Location</th>
<th>Credits</th>
<th>Moderators</th>
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<tbody>
<tr>
<td>1601</td>
<td>The Future is Here</td>
<td></td>
<td>1.50 CME/CE</td>
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<tr>
<td>1:30</td>
<td>The Promise of Teledmedicine as an Emerging and Disruptive Influence in Healthcare</td>
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<tr>
<td>1:35</td>
<td>The Future of Clinical Practice Guidelines: Their Promise for Optimizing Healthcare Decision Making and Improving Patient-Centered Healthcare Outcomes</td>
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<tr>
<td>2:05</td>
<td>Will the Promise of Improved Patient-Centered Healthcare Outcomes Be Achieved via our Future Transition to Value-Based Reimbursement?</td>
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**Symposia**

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<th>Time</th>
<th>Title</th>
<th>Location</th>
<th>Credits</th>
<th>Moderators</th>
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<tbody>
<tr>
<td>1701</td>
<td>National Asthma Education and Prevention Program Expert Panel Report (EPR4) on Selected Topics in Asthma Management 2020</td>
<td></td>
<td>1.00 CME/CE</td>
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<tr>
<td>3:15</td>
<td>Background and Methods for EPR4</td>
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<tr>
<td>3:25</td>
<td>Recommendations</td>
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<tr>
<td>3:40</td>
<td>Integrating Recommendations into Asthma Management</td>
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<tr>
<td>3:55</td>
<td>Research Gaps/Research Implications</td>
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<tr>
<td>Session</td>
<td>Title</td>
<td>Time</td>
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<tr>
<td>1809</td>
<td>Keeping Up With Ever-Changing Clinical Guidelines: The Latest From the Joint Task Force on Practice Parameters</td>
<td>4:30 to 5:45 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.25 CME/CE</td>
</tr>
<tr>
<td>1810</td>
<td>Cysteiny Leukotrienes: Beyond Bronchoconstriction</td>
<td>4:30 to 5:45 pm</td>
<td>Convention Center, 100 Level, Room 119B</td>
<td>1.25 CME/CE</td>
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**Allied Health Symposium**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>1811</td>
<td>Allied Health Plenary: Evidence Based-Care</td>
<td>4:30 to 5:45 pm</td>
<td>Convention Center, 100 Level, Room 108</td>
<td>1.25 CME/CE</td>
<td>Maria Crain, RN MA CPNP</td>
</tr>
<tr>
<td>1811</td>
<td>Up in Smoke: Vaping, Asthma and COPD</td>
<td>4:30</td>
<td>Karen L. Gregory, DNP APRN-BC RRT AE-C</td>
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</tr>
<tr>
<td>1811</td>
<td>How to Talk to Your Patients about Evidence-Based Care</td>
<td>4:55</td>
<td>Paul A. Offit, MD</td>
<td></td>
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</tr>
<tr>
<td>1811</td>
<td>Psychosocial Issues in Allergy/Immunology: What Approach to Care Works?</td>
<td>5:20</td>
<td>Linda Herbert, PhD</td>
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</tbody>
</table>
Get your staff connected to the AAAAI Practice Manager Network

Log on to Facebook and search groups for “AAAAI Practice Manager Network”

Questions?
Email practicemanagement@aaaai.org

American Academy of Allergy Asthma & Immunology

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Matching Gift for the GAIN Campaign generously provided by Sanofi Genzyme and Regeneron. Give today and double your impact!

Your gift in 2020 funds more research in 2021. Grow Allergy & Immunology Now!
Saturday Scientific Program
Saturday, March 14

6:00 AM - 6:00 PM

6:00 AM
Registration

6:30 am - 5:00 pm

7:00 AM
Allied Health Workshops
6:45 - 8:00 am

7:00 AM
Seminars
7:00 - 8:00 am

7:00 AM
Plenary Session
8:15 - 9:45 am

7:00 AM
Poster Presentations & Case Study Posters
9:45 - 10:45 am

7:00 AM
Symposia
10:45 am - 12:00 pm

8:00 AM
Flash Five Activities
8:00 am - 8:15 am

9:00 AM
Symposia & Interesting Cases Part One
12:30 - 1:45 pm

10:00 AM
Seminars & Pro/Con Debates
12:30 - 1:30 pm

11:00 AM
Career Paths in Allergy and Immunology
12:00 - 1:45 pm

12:00 PM
Training Stations
12:00 - 2:00 pm

1:00 PM
Oral Abstracts
2:00 - 3:15 pm

2:00 PM
Keynote
3:30 - 4:30 pm

3:00 PM
Workshops
4:45 - 6:00 pm

4:00 PM

5:00 PM

6:00 PM

Note:
Pre-reading material, audience response system, ticket required, fee required, included in the Virtual Annual Meeting.
Saturday Scientific Program

Seminars
Continental Breakfast included. Sessions and meals are limited to 30 people.

2001 Diagnostic Testing for Food Allergy in Patients with Atopic Dermatitis
7:00 to 8:00 am
Marriott, Level 4, Franklin 2
Credits: 1.00 CME/CE
Discussion Leaders: Bruce J. Lanser, MD FAAAAI
Lynda C. Schneider, MD FAAAAI

2002 Use of Biologics for Autoinflammatory Syndrome
7:00 to 8:00 am
Marriott, Level 4, Franklin 3
Credits: 1.00 CME/CE
Discussion Leaders: Lori Broderick, MD PhD
Michelle Hernandez, MD FAAAAI

2003 Basophil and Mast Cell Activation Tests in the Diagnosis of Allergies
7:00 to 8:00 am
Marriott, Level 4, Franklin 4
Credits: 1.00 CME/CE
Discussion Leaders: Arnold Kirshenbaum, MD FAAAAI
Donald W. MacGlashan, MD PhD

2004 A Multidisciplinary Approach to the Surgical and Medical Management of Aspirin-Exacerbated Respiratory Disease
7:00 to 8:00 am
Marriott, Level 4, Franklin 5
Credits: 1.00 CME/CE
Discussion Leaders: John V. Bosso, MD FAAAAI
James Palmer, MD

2005 Recurrent Angioedema Without Urticaria: A Case-Based Discussion
7:00 to 8:00 am
Marriott, Level 4, Franklin 6
Credits: 1.00 CME/CE
Discussion Leaders: Timothy J. Craig, DO FAAAAI
Douglas T. Johnston, DO FAAAAI

2006 Advanced Therapy for Urticaria: Practical Implications
7:00 to 8:00 am
Marriott, Level 4, Franklin 7
Credits: 1.00 CME/CE
Discussion Leaders: Luz S. Fonacier, MD FAAAAI
David Khan, MD FAAAAI

2007 Current and Novel Therapies for Chronic Cough
7:00 to 8:00 am
Marriott, Level 4, Franklin 8
Credits: 1.00 CME/CE
Discussion Leaders: Alan B. Goldsobel, MD FAAAAI
Mandel R. Sher, MD FAAAAI

2008 Outpatient Management of Patients with Multiple Drug Allergy Syndrome
7:00 to 8:00 am
Marriott, Level 4, Franklin 9
Credits: 1.00 CME/CE
Discussion Leaders: Miguel Park, MD
Roland Solensky, MD FAAAAI

2009 Best Practices for Immunoglobulin Therapy: From Writing Orders to Managing Adverse Reactions
7:00 to 8:00 am
Marriott, Level 4, Franklin 10
Credits: 1.00 CME/CE
Discussion Leaders: Kenneth Paris, MD MPH FAAAAI
Elena E. Perez, MD PhD FAAAAI

2010 Precision Medicine and Primary Immunodeficiency
7:00 to 8:00 am
Marriott, Level 4, Franklin 11
Credits: 1.00 CME/CE
Discussion Leaders: Gulbu Uzel, MD
Kathleen E. Sullivan, MD PhD FAAAAI

2011 Innovative Methods to Improve the Collection of Patient-Reported Outcomes (PROs)
7:00 to 8:00 am
Marriott, Level 4, Franklin 12
Credits: 1.00 CME/CE
Discussion Leaders: Sunit Jariwala, MD FAAAAI
Christopher D. Codispoti, MD PhD FAAAAI

Allied Health Workshops

2021 Allied Health: Difficult Cases: Meet the Challenge
6:45 to 8:00 am
Convention Center, 100 Level, Room 109
Credits: 1.25 CME/CE
Moderator: Elisa C. Thompson, NP

Challenges of Managing Severe and Difficult-to-Treat Asthma in the Elderly
Karen L. Gregory, DNP APRN-BC RRT AE-C

Atopic Dermatitis: The Abiding Challenges
Gregory Metz, MD FAAAAI

Pediatric Asthma: The Mystery Case
Marciarose Winston, MSN CPNP AE-C
Allied Health Workshops (continued)

2022

Allied Health: Wheat Allergy or Gluten Intolerance: Sifting the Facts
6:45 to 8:00 am
Convention Center, 100 Level, Room 108
Credits: 1.25 CME/CE
Moderator: Raquel Z. Durban, MS RD CSP LDN
6:45 Wheat Allergy in Children and Adults
Isabel J. Skypala, PhD RD
7:10 Wheat Intolerance and Celiac Disease: Similarities and Differences
Berber Vlieg-Boerstra, PhD RD
7:35 Ensuring Nutritional Adequacy in a Wheat-Free Diet
Alexia K. Beauregard, MS RD CSP LD

Allied Health Seminar

2012

Allied Health: When is Chronic Rhinitis Really Chronic Rhinosinusitis?
7:00 to 8:00 am
Convention Center, 100 Level, Room 110
Credits: 1.00 CME/CE
Discussion Leaders: Anjeni Keswani, MD
Leslie C. Grammer, MD FAAAAI

Plenary

2101

New Paradigms in the Management of Severe Asthma
8:15 to 9:45 am
Convention Center, 200 Level, Hall D
Credits: 1.50 CME/CE
Moderator: Giselle S. Mosnaim, MD MS FAAAAI
8:20 Contemporary Considerations in Targeting Low T2 Components of Asthma
John V. Fahy, MD
8:50 Application of Biomarkers to Optimize Patient Targeted Biologic Therapy
Sally E. Wenzel, MD FAAAAI
9:20 An Algorithmic Approach to Selecting and Continuing Biologic Therapy
Stanley J. Szefler, MD FAAAAI

Posters

9:45 to 10:45 am
Convention Center, 200 Level, Hall D
Credit: 0.00 CME/CE
Please refer to the 2020 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

001-005 Cutting Edge Poster Discussion Posters
006-030 Anaphylaxis
031-048 Asthma Pathogenesis and Inflammation
049-085 Asthma Therapy
086-093 Basic Immunology 1
094-105 Clinical Immunology
106-114 Outdoor Aerobiology
115-120 Indoor Allergens
121-126 Diagnosis of Eosinophilic Esophagitis
128-140 Pathogenesis and Treatment of Eosinophilic Esophagitis
141-145 Pathogenesis of Food Allergy
146-153 Primary Prevention of Food Allergy
154-162 Food Protein-Induced Enterocolitis Syndrome
163-177 Quality Improvement
178-182 Health Information/Technology
183-193 Immunotherapy
194-200 Microbiome and Allergic Disease
201-209 Eosinophils/Hypereosinophilic Syndromes
210-230 Cutting Edge in Allergy and Asthma

CR-A-CR-BJ Saturday Case Reports
Symposia

2301  World Allergy Forum: Global Trends in Allergen Immunotherapy
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 118
Credits: 1.25 CME/CE
Moderators: Motohiro Ebisawa, MD PhD FAAAAI
David M. Lang, MD FAAAAI
10:45  Epicutaneous Immunotherapy for Food Allergy
David M. Fleischer, MD FAAAAI
11:10  Efficacy and Safety of Polymerised Extracts in Allergen Immunotherapy
Ignacio J. Ansotegui, MD PhD
11:35  Controversies in Sublingual Immunotherapy
Giovanni Passalacqua, MD

2302  Emerging Concepts in Childhood Asthma Exacerbations
10:45 am to 12:00 pm
Convention Center, 400 Level, Terrace Ballroom III
Credits: 1.25 CME/CE
Moderator: William W. Busse, MD FAAAAI
10:45  Asthma Exacerbations: Causes and Consequences
Avraham Beigelman, MD MSCI FAAAAI
11:10  Exacerbation Prevention: What Works and What Doesn’t?
Leonard B. Bacharier, MD FAAAAI
11:35  Asthma Exacerbations: Molecular Mechanisms
Matthew C. Altman, MD

2303  Preventing Anaphylaxis: Therapies Within Reach
10:45 am to 12:00 pm
Convention Center, 400 Level, Terrace Ballroom II
Credits: 1.25 CME/CE
Moderator: Jay A. Lieberman, MD FAAAAI
10:45  The Role of Mast Cells and Basophils in Anaphylaxis
Dean D. Metcalfe, MD MS, FAAAAI
11:10  Approach to Idiopathic Anaphylaxis
Phillip Lieberman, MD FAAAAI
11:35  Novel Therapies in Anaphylaxis
Bruce S. Bochner, MD FAAAAI

2304  Recognizing and Managing Autoimmune Manifestations in Common Variable Immune Deficiency (CVID)
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 113
Credits: 1.25 CME/CE
Moderator: Mildred Kwan, MD PhD
10:45  Managing Autoimmune Cytopenias and Lymphoproliferative Disorders in CVID and Biomarkers of Success
Charlotte Cunningham-Rundles, MD PhD FAAAAI
11:10  Recognizing and Managing Gastrointestinal Manifestations in CVID
Avni Y. Joshi, MD FAAAAI
11:35  Pulmonary Disease in CVID: Diagnosis and Management
Paul Maglione, MD PhD

2305  Cellular Partners of Mast Cells and Basophils in Homeostasis and Allergic Disease
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 119B
Credits: 1.25 CME/CE
Moderator: Magdalena M. Gorska, MD PhD FAAAAI
10:45  Induction of Anaphylaxis by Blood-Sampling Perivascular Dendritic Cells via Transfer of Circulating Allergens to Mast Cells
Soman N. Abraham, PhD
11:10  Activation of Mast-Cell-Expressed Mas-Related G-Protein-Coupled Receptors Drives Non-Histaminergic Itch in Allergic Skin Diseases*
Xinzhong Dong, PhD
11:35  Airway Epithelium-Shifted Mast Cell Infiltration Regulates Asthma via IL-33
Teal Hallstrand, MD PhD

2306  Chronic Cough: Interaction Between Immunologic and Neurogenic Pathways
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 121
Credits: 1.25 CME/CE
Moderator: Jonathan A. Bernstein, MD FAAAAI
10:45  Diagnosis of Chronic Cough Hypersensitivity Syndrome
Peter V. Dicpinigaitis, MD
11:10  Immunologic and Neurogenic Pathways and Their Interaction in Chronic Cough Hypersensitivity Syndrome
Bradley J. Undem, PhD
11:35  Current and Future Treatment Strategies for Chronic Cough Hypersensitivity Syndrome
Peter G. Gibson, MD

2307  Spectrum of Occupational Exposure Effects with Asthma: Implications for Diagnosis and Biologic Therapeutics
10:45 am to 12:00 pm
Convention Center, 400 Level, Terrace Ballroom I
Credits: 1.25 CME/CE
Moderator: David I. Bernstein, MD FAAAAI
10:45  Phenotyping Occupational Asthma: Is there a Place for Biologics?
Joaquin Sastre, MD PhD FAAAAI
11:10  Airway Inflammatory Response Following Differing Occupational/Environmental Exposures: Clinical Implications
Hae-Sim Park, MD PhD FAAAAI
11:35  Assessing Long-Term Respiratory Consequences and Management of the World Trade Center Collapse to Inform Current/Future Events
Jacqueline Moline, MD MSc
Symposia (continued)

2308  Memory and Tolerance in Food Allergy
       10:45 am to 12:00 pm
       Convention Center, 400 Level, Terrace Ballroom IV
       Credits: 1.25 CME/CE
       Moderator: Anna H. Nowak-Wegrzyn, MD PhD FAAAAI
       10:45 Immunoglobulin Memory in Food Allergy
           Maria A. Curotto de Lafaille, PhD
       11:10 The Role of T Cells in Oral Tolerance
           Cecilia Berin, PhD
       11:35 The Role of Mucosal Immunoglobulin A in Oral Tolerance
           Kirsi M. Jarvinen-Seppo, MD PhD FAAAAI

2309  Using Digital Technologies to Promote Adherence and Asthma Control
       10:45 am to 12:00 pm
       Convention Center, 100 Level, Room 126
       Credits: 1.25 CME/CE
       Moderator: Nathaniel D. Hare, MD FAAAAI
       10:45 The Use of a Web App and Digital Adherence Monitors with
           Motivational Interviewing Promotes Adherence and Asthma
           Control in Adult Asthma Patients
           Thanai Pongdee, MD FAAAAI
       11:10 Use of Speech Recognition as Reminders Improves Asthma
           Adherence and Reduces Asthma Exacerbations
           Bruce G. Bender, PhD FAAAAI
       11:35 Using Digital Inhalers, Asthma Apps and Provider Dashboard
           Systems to Improve Adherence and Asthma Control
           Flory L. Nkoy, MD MS MPH

2310  Systems Analysis of Viral Infection and Asthma
       10:45 am to 12:00 pm
       Convention Center, 100 Level, Room 119A
       Credits: 1.25 CME/CE
       Moderator: James E. Gern, MD FAAAAI
       10:45 Systems Biology Approaches for a New Age of Research
           Sergejs Berdnikovs, PhD
       11:10 Analysis of Airway Cells Reveals Common and Distinct
           Transcriptional Pathways for Viral and Non-Viral Exacerbations of
           Asthma
           Daniel J. Jackson, MD FAAAAI
       11:35 Associations Between Viruses, Bacteria and Allergy in Infancy
           and Subsequent Childhood Asthma
           Robert Lemanske Jr., MD FAAAAI

ATTEND THE AAAAI CAREER CONNECTIONS

JOB FAIR

Saturday, March 14
10:00 am to 3:00 pm
Convention Center,
400 Level,
Terrace Ballroom Concourse
### Allied Health Workshops

**2312**  
**Allied Health: The Burden of Non-Immunoglobulin E (IgE) Mediated Food Allergies**

- **Time:** 10:45 am to 12:00 pm  
- **Location:** Convention Center, 100 Level, Room 108  
- **Credits:** 1.25 CME/CE  
- **Moderator:** Manish Ramesh, MD PhD

**10:45**  
The Risks of Nutritional Deficiencies in Infants and Children with Non-IgE-Mediated Food Allergies  
Rosan Meyer, PhD RD

**11:10**  
Pathways to Identifying the Psychosocial Burdens of Non-IgE-Mediated Food Allergies  
Fallon Matney, MSW LCSW CAM

**11:35**  
Empowering Patients to Deal with Psychosocial Burdens of Food Allergies  
Eyal Shemesh, MD

**2313**  
**Allied Health: Troubleshooting with Subcutaneous Immunoglobulin**

- **Time:** 10:45 am to 12:00 pm  
- **Location:** Convention Center, 100 Level, Room 109  
- **Credits:** 1.25 CME/CE  
- **Moderator:** Juhee Lee, MD

**10:45**  
Patient Education with Subcutaneous Immune Globulin  
Marianne Anzabi, RN

**11:10**  
Pumps, Tubes and Needles: What You Need to Know to Help Your Patients  
Linda M. Anastasia, RN

**11:35**  
Adverse Reactions to Subcutaneous Immune Globulin  
Melanie A. Ruffner, MD PhD

### Training Stations

**2401**  
**Oral Food Challenges**

- **Time:** 12:00 to 2:00 pm  
- **Location:** Convention Center, 200 Level, Hall D  
- **Credits:** 0.25 CME/CE  
- **Station Leader:** J. Andrew Bird, MD FAAAI

**Amanda L. Cox, MD FAAAI**  
**Tracy B. Fausnight, MD FAAAI**  
**Marion E. Groetch, MS RDN**  
**Bruce Lanser, MD FAAAI**  
**Stephanie A. Leonard, MD FAAAI**  
**Shahzad Mustafa, MD FAAAI**  
**Sally A. Noone, RN MSN**  
**Christopher P. Parrish, MD FAAAI**

**2402**  
**Patch Testing: Basics and Beyond**

- **Time:** 12:00 to 2:00 pm  
- **Location:** Convention Center, 200 Level, Hall D  
- **Credits:** 0.25 CME/CE  
- **Station Leader:** Ellen R. Sher, MD FAAAI

**Marcella R. Aquino, MD FAAAI**  
**Cheryl K. Bernstein, RN BSN CCRC**  
**Karim A. Pacheco, MD MSPH FAAAI**  
**Arielle Parris**  
**Jonathan M. Rodrigues, MD**  
**Jacqueline A. Ross, MD**  
**Marc J. Serota, MD**

### Asthma Medication Delivery Devices: How to Use Them and How to Teach Them

- **Time:** 12:00 to 2:00 pm  
- **Location:** Convention Center, 200 Level, Hall D  
- **Credits:** 0.25 CME/CE  
- **Station Leader:** Sharmilee M. Nyenhuis, MD FAAAI

**Anne E. Borgmeyer, DNP RN CPNP AE-C**  
**Caroline C. Horner, MD FAAAI**  
**Lila C. Kertz, MSN RN CPNP**  
**Margaret Kuder, MD**  
**Giselle S. Mosnaim, MD MS FAAAI**  
**Brooke I. Polk, MD**  
**Marc L. Rubin, AE-C RPh**

### Course

**2405**  
**Careers Paths in Allergy and Immunology**

- **Time:** 12:00 to 1:45 pm  
- **Location:** Convention Center, 100 Level, Room 111  
- **Credit:** 0.00 CME/CE  
- **Attendance:** Restricted to selected participants of the Chrysalis Project program and other medical student/resident meeting attendees. Boxed lunch included.

**12:00**  
**Lunch**

**12:15**  
**Welcome and Introduction**  
Rebecca Scherzer, MD FAAAI

**12:20**  
**Academia: Clinical**  
Amy M. Scurlock, MD

**12:30**  
**Academia: Research**  
Mitchell H. Grayson, MD FAAAI

**12:40**  
**Industry**  
Todd David Green, MD FAAAI

**12:50**  
**Government**  
Melody C. Carter, MD FAAAI

**1:00**  
**Private Practice**  
Andrew W. Murphy, MD FAAAI

**1:10**  
**Summary**  
Rebecca Scherzer, MD FAAAI

**1:15**  
**Breakout: Question & Answer**  
Nora A. Barrett, MD FAAAI  
Melody C. Carter, MD FAAAI  
Dorothy S. Cheung, MD FAAAI  
Mitchell H. Grayson, MD FAAAI  
Todd David Green, MD FAAAI  
Adina Kay Knight, MD FAAAI  
Andrew W. Murphy, MD FAAAI  
Princess Ogbovu MD FAAAI  
Amy M. Scurlock, MD  
Kelly D. Stone, MD PhD FAAAI
Saturday Scientific Program

Oral Abstract Session

2411 Allied Health Professional Assembly Business Meeting and Oral Abstract Session
12:15 to 1:45 pm
Convention Center, 100 Level, Room 108
Credit: 1.25 CME/CE
Moderators: Gregory Metz, MD FAAAAI
Kim E. Mudd, RN MSN CCNP

12:15 Business Meeting
12:30 Lifetime Health Care Costs Associated with Systemic Corticosteroid Use in Adults with Persistent Asthma
Yen Chung
12:45 Epinephrine Auto-Injector Workshops Answer Allergy Questions for Early Childhood Professionals and Provide Hands-On Practice with Training Devices
Jennifer E. Goertz
1:00 Health navigators are an effective strategy to bridge the gap for school-aged children at risk for asthma disparities
Melanie C. Gleeson, MS PA-C
1:15 Oral Immunotherapy For Food Allergy (OIT) Effectively Desensitizes Most Infants and Young Children
Dana T. Lie, PA-C
1:30 Clinical Pathway to Increase Rates of Penicillin Allergy De-labeling
Amy Stein, PNP

Seminars

2501 Successful Approaches to Eosinophilic Esophagitis: Long-Term Management Dilemmas
12:30 to 1:30 pm
Marriott, Level 4, Franklin 2
Continental Breakfast or Boxed Lunch included. Sessions and meals are limited to 30 people.
Credits: 1.00 CME/CE
Discussion Leaders: Fred Dan Atkins, MD FAAAAI
Russell Hopp, DO FAAAAI

2502 Basophils Revisited: From Research to Diagnostic Tools
12:30 to 1:30 pm
Marriott, Level 4, Franklin 3
Credits: 1.00 CME/CE
Discussion Leaders: Jörg R. Kleine-Tebbe, MD FAAAAI
Mohamed H. Shamji, BSc MSc PhD FAAAAI

2503 Approach to the Patient with Eosinophilia
12:30 to 1:30 pm
Marriott, Level 4, Franklin 4
Credits: 1.00 CME/CE
Discussion Leaders: Amy Klon, MD
Anna Kovalszki, MD

2504 What to Do with a Patient with Severe Chronic Rhinosinusitis
12:30 to 1:30 pm
Marriott, Level 4, Franklin 5
Credits: 1.00 CME/CE
Discussion Leaders: Robert C. Kern, MD
Anju C. Peters, MD MSCI FAAAAI

2505 Occupational Asthma and Asthma-COPD Overlap
12:30 to 1:30 pm
Marriott, Level 4, Franklin 6
Credits: 1.00 CME/CE
Discussion Leaders: Angela Haczku, MD PhD FAAAAI
Amir A. Zeki, MD MAS

2506 Food Immunotherapy and Biologics
12:30 to 1:30 pm
Marriott, Level 4, Franklin 7
Credits: 1.00 CME/CE
Discussion Leaders: Sharon Chinthrajah, MD
Brian P. Vickery, MD FAAAAI

2507 Understanding the Link Between Immunodeficiency and Autoinflammation
12:30 to 1:30 pm
Marriott, Level 4, Franklin 8
Credits: 1.00 CME/CE
Discussion Leaders: Joshua D. Milner, MD
Kathleen E. Sullivan, MD PhD FAAAAI

2508 Management of Respiratory and Cutaneous Reactions to Nonsteroidal Anti-Inflammatory Drugs
12:30 to 1:30 pm
Marriott, Level 4, Franklin 9
Credits: 1.00 CME/CE
Discussion Leaders: Andrew A. White, MD FAAAAI
Adam N. Williams, MD

2509 Asthma in Older Adults: A Different Disease?
12:30 to 1:30 pm
Marriott, Level 4, Franklin 10
Credits: 1.00 CME/CE
Discussion Leaders: Alan P. Baptist, MD MPH FAAAAI
Paula J. Busse, MD FAAAAI

2510 When Low T Cell Receptor Excision Circles Don’t Equal Severe Combined Immunodeficiency: Idiopathic T Lymphopenia and More
12:30 to 1:30 pm
Marriott, Level 4, Franklin 11
Credits: 1.00 CME/CE
Discussion Leaders: Morna J. Dorsey, MD MMSc FAAAAI
Jennifer Heimall, MD FAAAAI
### Saturday Scientific Program

#### Seminars (continued)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Discussion Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>2511</td>
<td>Pathways to Success on a Clinician Educator Track</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 12</td>
<td>1.00 CME/CE</td>
<td>Gerald Lee, MD; Iris M. Otani, MD</td>
</tr>
<tr>
<td>2512</td>
<td>Allied Health: Atopic Dermatitis: Bring Your Challenges!</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, 100 Level, Room 110</td>
<td>1.00 CME/CE</td>
<td>Terri F. Brown-Whitehorn, MD FAAAAI; Mark Boguniewicz, MD FAAAAI</td>
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#### Allied Health Seminar

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<tr>
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<th>Credits</th>
<th>Discussion Leaders</th>
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</thead>
<tbody>
<tr>
<td>2513</td>
<td><strong>Allied Health: Empowering Food-Allergic Patients to Handle Bullying and School Related Problems</strong></td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, 100 Level, Room 109</td>
<td>1.25 CME/CE</td>
<td>Karol G. Timmons, RN MS CPNP</td>
</tr>
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</table>

#### Symposia

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<tr>
<th>Session</th>
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<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Moderators</th>
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</thead>
<tbody>
<tr>
<td>2521</td>
<td>National Institute of Environmental Health Sciences (NIEHS): Exposure to Endocrine Disrupting Chemicals and Asthma-Related Outcomes</td>
<td>12:30 to 1:45 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom III</td>
<td>1.25 CME/CE</td>
<td>Darryl C. Zeldin, MD</td>
</tr>
<tr>
<td>2522</td>
<td>National Institute of Allergy and Infectious Diseases (NIAID): Newest Insights Into the Connection Between Atopic Dermatitis and Food Allergy</td>
<td>12:30 to 1:45 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom IV</td>
<td>1.25 CME/CE</td>
<td>Wendy F. Davidson, PhD</td>
</tr>
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#### Allied Health Workshop

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<tr>
<th>Session</th>
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<th>Credits</th>
<th>Moderators</th>
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<tbody>
<tr>
<td>2523</td>
<td>Allied Health: Empowering Food-Allergic Patients to Handle Bullying and School Related Problems</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, 100 Level, Room 109</td>
<td>1.25 CME/CE</td>
<td>Karol G. Timmons, RN MS CPNP</td>
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#### Pro/Con Debates

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<tr>
<th>Session</th>
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<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Moderators</th>
</tr>
</thead>
<tbody>
<tr>
<td>2551</td>
<td>Eosinophil Overrides Immunoglobulin E (IgE) in Selecting Biologic Therapy</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.00 CME/CE</td>
<td>Paul V. Williams, MD FAAAAI</td>
</tr>
<tr>
<td>2552</td>
<td>Asthma Biologics are Cost Effective for Severe Asthma</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom I</td>
<td>1.00 CME/CE</td>
<td>Christopher D. Codispoti, MD PhD FAAAAI</td>
</tr>
<tr>
<td>2553</td>
<td>The Impact of the Microbiome on Allergic Disease is Overrated</td>
<td>12:30 to 1:30 pm</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.00 CME/CE</td>
<td>Punita Ponda, MD FAAAAI</td>
</tr>
</tbody>
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*All content is extracted from the image in a structured format with clear headings and tables.*
Oral Abstract Sessions

2601  Anaphylaxis: A Worldwide Problem  
2:00 to 3:15 pm  
Convention Center, 400 Level, Terrace Ballroom II  
Credit: 1.25 CME/CE  
Moderators: Akaterini Anagnostou, MD MSc PhD FAAAAI  
Jay A. Lieberman, MD FAAAAI  
2:00 Description of Fire Ant Anaphylaxis (FAA) Cases in the USA: Inverse Relationship to the α-Gal syndrome (AGS) in the Southeast  
Thomas A. Platt-Mills, MD PhD FAAAI  
2:15 Anaphylaxis and Epinephrine Use in Public Schools in NSW, Australia 2017-2019  
Briony K. Tyquin  
2:30 Clinical Features, Inducers and Treatment of Anaphylaxis in Latin America and Spain  
Edgardo J. Jares, MD  
2:45 A Phase 1, Five-Period, Five-Treatment, Randomized Crossover Study of the Pharmacokinetics (PK) and Pharmacodynamics (PD) of Epinephrine After Administration of Intranasal (IN) ARS-1 and Intramuscular (IM) Epinephrine to Healthy Volunteers  
Sarina Tanimoto  
3:00 Comparison of the Pharmacokinetics and Pharmacodynamics of Epinephrine After Intranasal (IN), Intramuscular (IM) and Subcutaneous (SC) Administration in Three Landmark Studies  
Richard F. Lockey, MD FAAAAI

2602  Asthma and Airway Immunology  
2:00 to 3:15 pm  
Convention Center, 400 Level, Terrace Ballroom III  
Credit: 1.25 CME/CE  
Moderator: Sarah E. Henrickson, MD PhD  
Caroline C. Horner, MD FAAAAI  
2:00 ICS/LABA Combined with Specific Immunotherapy Modulates the Th17/Treg Imbalance in Asthmatic Children  
Wei-Xi Zhang, MD Phd  
2:30 Type II Epithelial RhoA Protects against Allergic Airway inflammation and the Formation of Inducible Bronchus-Associated Lymphoid Tissue (iBALT)  
Yan Zhang, MD PhD  
2:45 Tregitopes improve murine asthma by promoting highly suppressive and antigen specific Tregs  
Marieme Dembele  
3:00 Inflammasome Activation To Staphylococcus aureus Is Associated With Increased Wheezing In Early Life  
Eric M. Schauberger, DO PhD

2603 Clinical Presentation of Immunodeficiency Disorders  
2:00 to 3:15 pm  
Convention Center, 100 Level, Room 113  
Credit: 1.25 CME/CE  
Moderators: Ivan Chinn, MD  
Benjamin T. Prince, MD MC SI FAAAAI  
2:00 CVID-associated intestinal disorders in the USIDNET registry: An analysis of disease phenotypes, functional status, comorbidities, and treatment  
Lauren Franzblau, MD  
2:15 X-Linked Agammaglobulinemia: Infection Frequencies in 226 Patients from the USIDNET Registry  
Daniel Groth, MD  
2:30 Characteristics of a diverse urban population of primary antibody deficiency patients  
Luke J. Wallace  
2:45 Priming with Prevnar® improves global pneumococcal vaccine responses to Pneumovax® in Asthmatic Adults  
Alexandra R. Graden  
3:00 Predicting Autoimmunity Development in 22q11.2DS  
Carolyn H. Baloh, MD

2604 Ambient Pollutant Exposures and Respiratory Health  
2:00 to 3:15 pm  
Convention Center, 100 Level, Room 119A  
Credit: 1.25 CME/CE  
Moderator: Neil Alexis, PhD  
2:00 Monitoring Airborne Combustion, Allergen and Microbial Particulate Exposures in Asthmatic Children  
Hadler A. Da Silva  
2:15 Low level ozone exposure at rest causes changes in lung function among healthy volunteers  
Michelle Hernandez, MD FAAAAI  
2:30 The Genome Analysis of Blomia tropicalis Reveals A Comprehensive Allergen Profile  
Qing Xiong, PhD  
2:45 Pollution-Associated Exposure Signature in Teenagers  
Francois Haddad  
3:00 Assessment of Indoor Air Quality and Cleaning Behaviors in Urban Child Care Facilities  
Erin A. Lee, MS
Saturday Scientific Program

Oral Abstract Sessions (continued)

2605  Advances in the Treatment of Peanut Allergy
2:00 to 3:15 pm
Convention Center, 400 Level, Terrace Ballroom I
Credit: 1.25 CME/CE
Moderators: David M. Fleisher, MD FAAAAI
Edwin Kim, MD MS FAAAAI
2:00  Vaccine Against Peanut Allergy Based On Engineered Virus-Like-Particles And Major Peanut Allergens
Martin F. Bachmann

2:15  Results of the REALISE (Real-life Use and Safety of EPIT) Study: A Multicenter Blinded Randomized Controlled Trial Investigating the Safety of Epicutaneous Immunotherapy for Peanut Allergy in Peanut-Allergic Children
Jacqueline Pongracic, MD FAAAAI

2:30  Long-Term Safety Behaviors and Receipt of Specialized Allergy Care Following Oral or Sublingual Immunotherapy
Jessica D. Macdougall

2:45  Peanut oral immunotherapy induces gastrointestinal eosinophilia in a longitudinal randomized controlled trial
Benjamin L. Wright, MD FAAAAI

3:00  Berberine-containing Natural Medicine Confers Sustained Peanut Tolerance Associated with Distinct Microbiota Signature
Kamal Srivastava

2606  Value and Cost-Effectiveness in Allergy Immunology: Economics Research
2:00 to 3:15 pm
Convention Center, 100 Level, Room 118
Credit: 1.25 CME/CE
Moderators: Marcus S. Shaker, MD MSc FAAAAI
Sunit Jarawala, MD FAAAAI
2:00  The Cost-effectiveness of Universal Self-injectable Epinephrine Auto-injector for Allergen Immunotherapy
Di Sun, MD MPH

2:15  Overuse of food specific IgE panels in the diagnosis of food allergy
Navdeep K Riar, MD

2:30  The Economic Impact of Food Allergy (FA) in Canada
Ann E. Clarke

2:45  A Qualitative Exploration of Food Allergy Management among a Medicaid-Insured Population
Alexandra Bazen

3:00  The impact of maternal penicillin allergy on neonatal care and health care cost
Dustin L. Fowler, DO

2607  Mechanisms and Treatment Effects of Immunotherapy
2:00 to 3:15 pm
Convention Center, 100 Level, Room 115
Credit: 1.25 CME/CE
Moderators: Punita Ponda, MD FAAAAI
Christopher W. Calabria, MD FAAAAI
2:00  Role of Langerhans Cells in the Formation of Germinal Center and Modulation of Humoral Immunity During Epicutaneous Immunotherapy
Vincent Dioszeghy, PhD

2:15  Consistent Treatment Effect with Birch Pollen SLIT-Tablets Also Across Hazel/Alder and Oak Pollen Seasons
Susan Waserman, MD MSc FAAAAI

2:30  Formononetin Isolated from Ku Shen (Radix Sophorae Flavescentis) Inhibits B cell IgE Production by Inhibiting STAT 6 and NF-κB phosphorylation and XBP1 and IgE heavy chain expression
Ibrahim A. Musin

2:45  Mannan-Allergoid Conjugate of House-Dust Mites: First Subcutaneous and Sublingual Dose-Finding Study in Humans
Miguel Casanovas, MD PhD

3:00  Impact of Ragweed SLIT-Tablets on Asthma Outcomes in a Large Trial of Children with Allergic Rhinoconjunctivitis
David I. Bernstein, MD FAAAAI

2608  Immune Regulation of Food Allergy
2:00 to 3:15 pm
Convention Center, 400 Level, Terrace Ballroom IV
Credit: 1.25 CME/CE
Moderators: Philippe Begin, MD FAAAAI
Gideon Lack, MD
2:00  Development of peanut allergy is associated with coding SNPs in the C-terminus of the IL-33 receptor that impact signaling and TH2 effector function
Karen Cerosaletti, PhD

2:15  Carbohydrate(s) that are Contained within Peanut Flour Promote Allergic Sensitization to Peanut through CARD9 Pathway
Takayasu Nomura, MD PhD

2:30  Natural History of Epitope-Specific IgD, IgG1, IgA, IgG4 and IgE Development in Peanut Allergic Children
Maria Suprun

2:45  A CD25+ cell suppresses the proliferation of peanut-specific CD8+ T cells from nonallergic individuals.
Yu Wong, MD PhD

3:00  Regulatory T cell Gene Expression in Pediatric Food Allergy
Kris A. Erickson
### Oral Abstract Sessions (continued)

<table>
<thead>
<tr>
<th>Session</th>
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<th>Moderators</th>
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<tbody>
<tr>
<td>2611</td>
<td>Late Breaking Oral Abstract Session</td>
<td>2:00 to 3:15 pm</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.25 CME/CE</td>
<td>Anil Nanda, MD FAAAAI, Thanai Pongdee, MD FAAAAI</td>
</tr>
<tr>
<td>2:00</td>
<td>Exposure to acid suppressant medications during infancy and risk of recurrent wheeze by age 3 years among children with a history of severe bronchiolitis</td>
<td>2:00</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.25 CME/CE</td>
<td>Anil Nanda, MD FAAAAI, Thanai Pongdee, MD FAAAAI</td>
</tr>
<tr>
<td>2:15</td>
<td>Features and Predictors of Biphasic Anaphylaxis: Data from the European Anaphylaxis Registry</td>
<td>2:15</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.25 CME/CE</td>
<td>Anil Nanda, MD FAAAAI, Thanai Pongdee, MD FAAAAI</td>
</tr>
<tr>
<td>2:30</td>
<td>The Efficacy and Safety of Probiotic and Peanut Oral Immunotherapy for inducing Desensitization and Sustained Unresponsiveness: Results from a Phase 2b Multi-center Randomized Trial (PPOIT-003)</td>
<td>2:30</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.25 CME/CE</td>
<td>Anil Nanda, MD FAAAAI, Thanai Pongdee, MD FAAAAI</td>
</tr>
<tr>
<td>2:45</td>
<td>Thunderstorm Asthma: In Search For Relationships With Airborne Pollen And Fungal Spores From 23 Sites In Bavaria, Germany. A Rare Incident Or A Common Threat?</td>
<td>2:45</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.25 CME/CE</td>
<td>Anil Nanda, MD FAAAAI, Thanai Pongdee, MD FAAAAI</td>
</tr>
<tr>
<td>3:00</td>
<td>PIONEER: A Randomized, Double-Blind, Placebo-Controlled, Phase 2 Study of Avapritinib in Patients with Indolent or Smoldering Systemic Mastocytosis (SM) With Symptoms Inadequately Controlled by Standard Therapy</td>
<td>3:00</td>
<td>Convention Center, 100 Level, Room 121</td>
<td>1.25 CME/CE</td>
<td>Anil Nanda, MD FAAAAI, Thanai Pongdee, MD FAAAAI</td>
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#### Keynote

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<tbody>
<tr>
<td>2701</td>
<td>Getting to the Results that Matter: Supporting the Transition to Value</td>
<td>3:30 to 4:30 pm</td>
<td>Convention Center, 200 Level, Hall D</td>
<td>1.00 CME/CE</td>
<td>David M. Lang, MD FAAAAI, Shantanu Agrawal, MD MPhil</td>
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#### Workshops

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<tr>
<td>2801</td>
<td>JACI Year-in-Review Workshop</td>
<td>4:45 to 6:00 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom I</td>
<td>1.25 CME/CE</td>
<td>Zuhair K. Ballas, MD FAAAAI</td>
</tr>
<tr>
<td>4:45</td>
<td>Role of the Environment in Allergy and Immunologic Disorders</td>
<td>4:45</td>
<td>Convention Center, 400 Level, Terrace Ballroom I</td>
<td>1.25 CME/CE</td>
<td>Zuhair K. Ballas, MD FAAAAI</td>
</tr>
<tr>
<td>5:10</td>
<td>Immunodeficiency</td>
<td>5:10</td>
<td>Convention Center, 400 Level, Terrace Ballroom I</td>
<td>1.25 CME/CE</td>
<td>Zuhair K. Ballas, MD FAAAAI</td>
</tr>
<tr>
<td>5:35</td>
<td>Mechanisms in Allergy/Immunology</td>
<td>5:35</td>
<td>Convention Center, 400 Level, Terrace Ballroom I</td>
<td>1.25 CME/CE</td>
<td>Zuhair K. Ballas, MD FAAAAI</td>
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<tr>
<td>2802</td>
<td>Hot Topics in Pediatric Allergy and Immunology</td>
<td>4:45 to 6:00 pm</td>
<td>Convention Center, 100 Level, Room 115</td>
<td>1.25 CME/CE</td>
<td>Elizabeth C. Matsui, MD FAAAAI</td>
</tr>
<tr>
<td>4:45</td>
<td>Hot Topics in Pediatric Food Allergy</td>
<td>4:45</td>
<td>Convention Center, 100 Level, Room 115</td>
<td>1.25 CME/CE</td>
<td>Elizabeth C. Matsui, MD FAAAAI</td>
</tr>
<tr>
<td>5:10</td>
<td>Hot Topics in Pediatric Primary Immunodeficiency</td>
<td>5:10</td>
<td>Convention Center, 100 Level, Room 115</td>
<td>1.25 CME/CE</td>
<td>Elizabeth C. Matsui, MD FAAAAI</td>
</tr>
<tr>
<td>5:35</td>
<td>Hot Topics in Pediatric Asthma</td>
<td>5:35</td>
<td>Convention Center, 100 Level, Room 115</td>
<td>1.25 CME/CE</td>
<td>Elizabeth C. Matsui, MD FAAAAI</td>
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<tbody>
<tr>
<td>2803</td>
<td>The Changing Face of Continuing Certification: Allergist/Immunologists, AAAAI and ABAI Leading the Way</td>
<td>4:45 to 6:00 pm</td>
<td>Convention Center, 100 Level, Room 119A</td>
<td>1.25 CME/CE</td>
<td>Michael R. Nelson, MD PhD FAAAAI</td>
</tr>
<tr>
<td>4:45</td>
<td>ABMS, ABAI, and the Vision Commission and What It Means to You</td>
<td>4:45</td>
<td>Convention Center, 100 Level, Room 119A</td>
<td>1.25 CME/CE</td>
<td>Michael R. Nelson, MD PhD FAAAAI</td>
</tr>
<tr>
<td>5:10</td>
<td>Diplomates, ABAI and AAAAI Working Together for You</td>
<td>5:10</td>
<td>Convention Center, 100 Level, Room 119A</td>
<td>1.25 CME/CE</td>
<td>Michael R. Nelson, MD PhD FAAAAI</td>
</tr>
<tr>
<td>5:35</td>
<td>The Future of Initial and Continuing Certification</td>
<td>5:35</td>
<td>Convention Center, 100 Level, Room 119A</td>
<td>1.25 CME/CE</td>
<td>Michael R. Nelson, MD PhD FAAAAI</td>
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<tbody>
<tr>
<td>2804</td>
<td>Controversial Topics in Subcutaneous Immunotherapy (SCIT) and Sublingual Immunotherapy (SLIT)</td>
<td>4:45 to 6:00 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.25 CME/CE</td>
<td>Kevin M. White, MD</td>
</tr>
<tr>
<td>4:45</td>
<td>Should Epinephrine Autoinjectors be Prescribed to All SCIT/SLIT Patients?</td>
<td>4:45</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.25 CME/CE</td>
<td>Kevin M. White, MD</td>
</tr>
<tr>
<td>5:10</td>
<td>Who is Responsible for Adherence to the 30-Minute Wait Time: The Patient or the Office Physician?</td>
<td>5:10</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.25 CME/CE</td>
<td>Kevin M. White, MD</td>
</tr>
<tr>
<td>5:35</td>
<td>What Situations Should Dictate a Dose Adjustment?</td>
<td>5:35</td>
<td>Convention Center, 400 Level, Terrace Ballroom II</td>
<td>1.25 CME/CE</td>
<td>Kevin M. White, MD</td>
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<tr>
<td>2806</td>
<td>Asthma Biologics During Pregnancy: Safety and Use</td>
<td>4:45 to 6:00 pm</td>
<td>Convention Center, 400 Level, Terrace Ballroom IV</td>
<td>1.25 CME/CE</td>
<td>Michael Schatz, MD FAAAAI</td>
</tr>
<tr>
<td>4:45</td>
<td>The Safety of Non-Asthma Biologics During Pregnancy</td>
<td>4:45</td>
<td>Convention Center, 400 Level, Terrace Ballroom IV</td>
<td>1.25 CME/CE</td>
<td>Michael Schatz, MD FAAAAI</td>
</tr>
<tr>
<td>5:10</td>
<td>Asthma Biomarkers During Pregnancy</td>
<td>5:10</td>
<td>Convention Center, 400 Level, Terrace Ballroom IV</td>
<td>1.25 CME/CE</td>
<td>Michael Schatz, MD FAAAAI</td>
</tr>
<tr>
<td>5:35</td>
<td>The Use of Asthma Biologics During Pregnancy</td>
<td>5:35</td>
<td>Convention Center, 400 Level, Terrace Ballroom IV</td>
<td>1.25 CME/CE</td>
<td>Michael Schatz, MD FAAAAI</td>
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Workshops (continued)

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<th>Credits</th>
<th>Moderator(s)</th>
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</thead>
</table>
| 2807 | Evolving Concepts of Fungi and Allergic Respiratory Disease for Clinical and Research Practice | 4:45 to 6:00 pm | Convention Center, 100 Level, Room 126 | 1.25 CME/CE | Ajay P. Nayak, PhD
| 2807 | Fungal Asthma: Antifungals, Biologics or Both?                         | 4:45        | David Denning, MD             |         |                                                 |
| 2807 | Mycosis and Status Asthmaticus                                         | 5:10        | David B. Corry, MD            |         |                                                 |
| 2807 | Next-Gen Sequencing and Lung Mycobiome                                  | 5:35        | Catherine Pashley, PhD        |         |                                                 |
| 2808 | Food Protein-Induced Enterocolitis Syndrome (FPIES): Emerging Trends, Treatments and Advances | 4:45 to 6:00 pm | Convention Center, 400 Level, Terrace Ballroom III | 1.25 CME/CE | Rachel G. Robison, MD FAAAAI
| 2808 | Evolving Epidemiology of FPIES                                          | 4:45        | Anna H. Nowak-Wegrzyn, MD PhD FAAAAI |         |                                                 |
| 2808 | Pearls in FPIES Diagnosis and Management                                | 5:10        | Terri F. Brown-Whitehorn, MD FAAAAI |         |                                                 |
| 2808 | Nutritional and Feeding Dilemmas in FPIES                               | 5:35        | Carina Venter, PhD RD         |         |                                                 |
| 2809 | Immunotherapy Counts: Interactive Online Patient Cases                  | 4:45 to 6:00 pm | Convention Center, 100 Level, Room 122B | 1.25 CME/CE | Peter Creticos, MD FAAAAI, Linda Cox, MD FAAAAI
| 2809 | Welcome                                                                 | 4:45        | Virtual Patient Discussions: Attendees work through each virtual patient with a dedicated discussion leader; 15 minutes will be allotted for each patient. |         |                                                 |
| 2810 | Penicillin Allergy: An Old Problem with New Solutions                  | 4:45 to 6:00 pm | Convention Center, 100 Level, Room 118 | 1.25 CME/CE | Paige G. Wickner, MD FAAAAI
| 2810 | The Public Health Aspect: Why De-Labeling of Penicillin Allergy Is Important | 4:45      | Kimberly G. Blumenthal, MD MSc FAAAAI |         |                                                 |
| 2811 | Motivational Interviewing, Communication Skills and Hands-On Training to Improve Asthma Adherence and Outcomes | 4:45 to 6:00 pm | Convention Center, 100 Level, Room 122A | 1.25 CME/CE | Adriani M. Chiu, MD FAAAAI
| 2811 | Motivational Interviewing to Improve Asthma Adherence                   | 5:35        | Hazel Tapp, PhD Andrew G. Weinstein, MD FAAAAI |         |                                                 |
| 2812 | Cutting-Edge Poster Discussion (Posters 276-280)                       | 4:45 to 6:00 pm | Convention Center, 100 Level, Room 120AB | 1.25 CME/CE | Mitchell H. Grayson, MD FAAAAI Christina L. Nance, PhD MA FAAAAI
| 2812 | Poster Viewing                                                          | 4:45        | Virtual Patient Discussions: Attendees work through each virtual patient with a dedicated discussion leader; 15 minutes will be allotted for each patient. |         |                                                 |
| 2812 | Leukotriene D4 antagonizes CysLT2 receptor signaling and LTC4-driven immunopathology in vivo | 5:30 | Tao Liu, PhD |         |                                                 |
| 2812 | The Role Of Chitinase 3-Like–1 In The Regulation Of Food Allergy         | 5:35        | Myunghyun Sohn, MD PhD        |         |                                                 |
| 2812 | Transfection with Cadherin-related Family Member 3 Variant             | 5:40        | Kazuyuki Nakagome, MD PhD     |         |                                                 |
| 2812 | miRNA103a-3p in extracellular vesicles derived from IgE plus anti-IgE Ab activated human mast cells enhances IL-5 production in ILC2 in the presence of IL-33 | 5:45 | Shota Toyoshima |         |                                                 |

Saturday, March 14
## Allied Health Workshops

### 2813 Allied Health: Oh Baby! Infant Food Challenge Dilemmas
- **4:45 to 6:00 pm**
- **Convention Center, 100 Level, Room 108**
- **Credits:** 1.25 CME/CE
- **Moderator:** Megan Ott Lewis, MSN CRNP

- **4:45** Barriers to LEAP Guideline Implementation in Pediatrics
  - Laura M. Gober, MD

- **5:10** Sailing Through Infant/Toddler Food Challenges
  - Rushani W. Saltzman, MD

- **5:35** Making the Most of the Baby’s Diet
  - Amy Dean, MPH RD LDN

### 2814 Allied Health: Perspectives from the Allied Health Travel Scholarship Recipients
- **4:45 to 6:00 pm**
- **Convention Center, 100 Level, Room 111**
- **Credits:** 1.25 CME/CE
- **Moderator:** Kim E. Mudd, RN MSN CCRP

- **4:45** Introduction
  - Kim E. Mudd, RN MSN CCRP

- **4:55** Travel Award Recipients:
  - Catherine C. Peterson, PhD
  - Felicia Farhat K. DiLoreto, PharmD
  - Emily English, RN CPNP
  - Callie A. Margiotta
  - Anna C. Sprunger, PA-C
  - Jessica H. Turner, MPH
  - Elizabeth A. Varga, MS
  - Amanda S. Troger, BSN RN

- **5:35** Question & Answer
Registration for the 2020 AAAAI/ACAAI Joint Board Certification Review Course is now open.

This intensive two and a half day course will give you the key to success whether you’re preparing for the American Board of Allergy and Immunology (ABAI) exam, recertification or simply strengthening your skills. Developed by leading experts in the field, this course covers major concepts included in the written certification exam. At the conclusion of the course participants should be able to identify, evaluate and manage the current issues in allergy and immunology in preparation for the ABAI exam.

You can find the program schedule and registration page at education.aaaai.org/2020BRC. Online registration will remain open through April 17, 2020.
EAACI CONGRESS 2020

Bridging Innovations into Allergy and Asthma Prevention

6-10 June 2020

Register on eaacci.org
Monday, March 15

6:00 AM

7:00 AM

8:00 AM

9:00 AM

10:00 AM

11:00 AM

12:00 PM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

5:00 PM

6:00 PM

**Seminars**
7:00 - 8:00 am

**Allied Health Seminar**
7:00 - 8:00 am

**Plenary Session**
8:15 - 9:45 am

**Poster Presentations & Case Study Posters**
9:45 - 10:45 am

**Symposia**
10:45 am - 12:00 pm

**Allied Health Symposia**
10:45 am - 12:00 pm

**Symposia & Interesting Cases Part Two**
12:30 - 1:45 pm

**Seminars & Pro/Con Debates**
12:30 - 1:30 pm

**Oral Abstracts**
2:00 - 3:15 pm

**Asthma Educators Course - Day One**
12:30 - 6:00 pm

**Interest Section Forums**
3:30 - 4:30 pm

**Featured Posters & Reception**
4:45 - 6:15 pm

**Training Stations**
12:00 - 2:00 pm

**Poster Hall**
7:00 am - 6:00 pm

**Exhibit Hall**
9:45 am - 3:15 pm

**Registration**
6:30 am - 9:00 am

**Registration**
6:30 am - 9:00 am
Seminars

Continental Breakfast included. Sessions and meals are limited to 30 people.

3001 Toxic Mold, Health Effects and Home Assessment
7:00 to 8:00 am
Marriott, Level 4, Franklin 2
Credits: 1.00 CME/CE
Discussion Leaders: James J. Anderson, MLT
Jay M. Portnoy, MD FAAAAI

3002 Big Data Analytics and Crowdsourcing Social Media at the National Allergy Bureau™
7:00 to 8:00 am
Marriott, Level 4, Franklin 3
Credits: 1.00 CME/CE
Discussion Leaders: Dan Dalan, MD FAAAAI
David R. Stukus, MD FAAAAI

3003 Incorporating Baked Products into the Management of Milk and Egg Allergy
7:00 to 8:00 am
Marriott, Level 4, Franklin 4
Credits: 1.00 CME/CE
Discussion Leaders: Jean-Christoph Caubet, MD
Sandy R. Durrani, MD

3004 Patient with Recurrent Anaphylaxis: When to Refer for Bone Marrow Analysis
7:00 to 8:00 am
Marriott, Level 4, Franklin 5
Credits: 1.00 CME/CE
Discussion Leaders: Melody C. Carter, MD FAAAAI
Lawrence B. Schwartz, MD PhD FAAAAI

3005 Mast Cell Activation Syndrome: Clarifying the Criteria for Patients and Colleagues
7:00 to 8:00 am
Marriott, Level 4, Franklin 6
Credits: 1.00 CME/CE
Discussion Leaders: Joseph H. Butterfield, MD FAAAAI
Anne L. Maitland, MD PhD

3006 How to Apply Component Based Testing in Your Practice: A Case-Based Presentation
7:00 to 8:00 am
Marriott, Level 4, Franklin 7
Credits: 1.00 CME/CE
Discussion Leaders: Anne Marie Singh, MD
Jörg R. Kleine-Tebbe, MD FAAAAI

3007 Contact Dermatitis in the Patient with Atopic Dermatitis
7:00 to 8:00 am
Marriott, Level 4, Franklin 8
Credits: 1.00 CME/CE
Discussion Leaders: Luz S. Fonacier, MD FAAAAI
Marcella R. Aquino, MD FAAAAI

3008 Aspirin Challenges and Desensitizations in Aspirin-Exacerbated Respiratory Disease
7:00 to 8:00 am
Marriott, Level 4, Franklin 9
Credits: 1.00 CME/CE
Discussion Leaders: Elina Jerschow, MD FAAAAI
Andrew A. White, MD FAAAAI

3009 A Nuts and Bolts Approach to the Workup of Immunodeficiency Disorders in Children
7:00 to 8:00 am
Marriott, Level 4, Franklin 10
Credits: 1.00 CME/CE
Discussion Leaders: M. Teresa De La Morena, MD
Ivan Chinn, MD

3010 Tailoring Therapy to the Patient with Asthma
7:00 to 8:00 am
Marriott, Level 4, Franklin 11
Credits: 1.00 CME/CE
Discussion Leaders: Andrew Menzies-Gow, MD PhD
Tara F. Carr, MD FAAAAI

3011 Assessing and Improving Quality of Life in Families Affected by Food Allergy
7:00 to 8:00 am
Marriott, Level 4, Franklin 12
Credits: 1.00 CME/CE
Discussion Leaders: Lisa M. Bartnikas, MD
Theresa A. Bingemann, MD FAAAAI

Allied Health Seminar

3012 Allied Health: How to Develop and Evaluate Patient-Facing Mobile Health (mHealth) Applications for Asthma and Allergic Diseases
7:00 to 8:00 am
Convention Center, 100 Level, Room 110
Credits: 1.00 CME/CE
Discussion Leaders: Sunit Jariwala, MD FAAAAI
Thanai Pongdee, MD FAAAAI

Plenary

3101 More Than a Barrier: The Roles of Airway Epithelium in Healthy and Allergic Metabolic and Immune Responses
8:15 to 9:45 am
Convention Center, 200 Level, Hall D
Credits: 1.50 CME/CE
Moderator: Robert P. Schleimer, PhD FAAAAI

8:20 A Single-Cell Expression Atlas of Epithelial Cells to Explain Mechanisms of an Airway Disease
Nora A. Barrett, MD FAAAAI

8:50 Epithelial Taste-Chemosensory Cells in Regulation of Allergic Inflammation
Noam A. Cohen, MD PhD

9:20 Pulmonary Neuroendocrine Cells: Translating Neuronal and Environmental Cues into Immune Responses in Asthma and Other Lung Diseases
Xin Sun, PhD
## Posters

9:45 to 10:45 am  
Convention Center, 200 Level, Hall D  
Credit: 0.00 CME/CE  
Please refer to the 2020 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

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<tr>
<td>281-313 Drug Allergy</td>
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<tr>
<td>314-336 Hereditary Angioedema</td>
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<tr>
<td>337-364 Asthma Epidemiology, Intervention, and Public Health</td>
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<tr>
<td>365-381 Asthma Diagnosis, Genotyping and Phenotyping</td>
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<tr>
<td>382-388 Basic Immunology 2</td>
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<tr>
<td>389-400 Spectrum of Primary Immunodeficiency Disorders</td>
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<td>401-409 Immune Response to Environmental Exposures</td>
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<td>410-417 Environmental Allergens and Respiratory Health</td>
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<td>418-419 Occupational Exposures</td>
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<tr>
<td>420-447 Treatment of Food Allergy: Oral Immunotherapy</td>
</tr>
<tr>
<td>448-453 Treatment of Food Allergy: Epicutaneous Immunotherapy, Sublingual Immunotherapy and Other Novel Approaches</td>
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<tr>
<td>454-460 Epidemiology of Food Allergy</td>
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<td>461-465 Alpha-Gal</td>
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<tr>
<td>466-472 Quality of Life</td>
</tr>
<tr>
<td>473-487 Rhinosinusitis/Allergy Diagnostics and Standardization</td>
</tr>
<tr>
<td>488-505 Mechanisms of Allergic Inflammation</td>
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<tr>
<td>506-514 T and B Cells in Allergic Disease</td>
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<tr>
<td>CR-A-CR-BC Sunday Case Reports</td>
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</tbody>
</table>

## Symposia

<table>
<thead>
<tr>
<th>Symposia</th>
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</table>
| 3301 | **EAACI: Can Artificial Intelligence Improve Patient Outcomes?**  
10:45 am to 12:00 pm  
Convention Center, 100 Level, Room 113  
Credit: 1.25 CME/CE  
Moderator: Tomás Chivato, MD PhD |
| 10:45 | High-Dimensional Multivariable Analysis for Asthma  
Bianca Schaub, MD |
| 11:10 | Multimomics Analysis in Food Allergy  
Maria M. Escribese Alonso, PhD |
| 11:35 | Multidimensional Endotyping: The Unbiased Pathway to Precision Medicine in Asthma  
Ioana O. Agache, MD PhD |
| 3302 | **Environmental Changes and Asthma: A Global Phenomenon That Has Specific Consequences on Special Populations**  
10:45 am to 12:00 pm  
Convention Center, 100 Level, Room 121  
Credit: 1.25 CME/CE  
Moderator: Anil Nanda, MD FAAAAI |
| 10:45 | The Impact of Climate Change on Asthma and Other Allergic Diseases  
Elizabeth C. Matsui, MD MHS FAAAAI |
| 11:35 | The Impact of Environmental Exposures on the High-Risk Population of Asthmatics Age 65 Years and Older  
Tolly Epstein, MD MS FAAAAI |
| 11:10 | The Impact of Environmental Exposures on At-Risk Pediatric Populations  
Rebecca S. Gruchalla, MD PhD FAAAAI |
| 3303 | **Drug Allergy Evaluations and Their Impact on Improved Quality of Life**  
10:45 am to 12:00 pm  
Convention Center, 400 Level, Terrace Ballroom IV  
Credit: 1.25 CME/CE  
Moderator: Rebecca Saff, MD PhD FAAAAI |
| 10:45 | Nonsteroidal Anti-Inflammatory Drugs Allergy Evaluations to Increase Guideline-Concordant Care and Decrease Use of Opioid Pain Medications  
Tanya M. Laidlaw, MD FAAAAI |
| 11:10 | Penicillin Allergy Evaluations to Improve Infection Treatment and Combat Antimicrobial Resistance  
Kimberly G. Blumenthal, MD MSc FAAAAI |
| 11:35 | Chemotherapy Allergy Evaluations to Improve First-Line Cancer Treatment  
Mariana C. Castells, MD PhD FAAAAI |
Sunday Scientific Program

Symposia (continued)

3304 Unintended Immune Consequences of Biologic Therapy in Autoimmune Conditions
10:45 am to 12:00 pm
Convention Center, 400 Level, Terrace Ballroom III
Credits: 1.25 CME/CE
Moderator: Mildred Kwan, MD PhD
10:45 Immune Pathways Modulated by Commonly Used Therapies
Teresa K. Tarrant, MD FAAAAI
11:10 Hypogammaglobulinemia Resulting from B Cell Targeted Therapy
Sara Barmettler, MD
11:35 Immune Adverse Effects in the Course of Checkpoint Inhibitor Therapy
Laura Cappelli, MD

3305 Regulation and Function of Innate Lymphoid Cells in Health and Allergic Disease
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 119B
Credits: 1.25 CME/CE
Primary Moderators: Taylor A. Doherty, MD FAAAAI
Magdalena M. Gorska, MD PhD FAAAAI
10:45 ILC2 Memory for Pathogen-Associated Molecular Patterns (PAMPs)
Rafeul Alam, MD PhD FAAAAI
11:10 Regulation of ILC2s by Peripheral Tissues
An B. Molotsky, MD PhD
11:35 Novel Functions of ILC2s
Gregory F. Sonnenberg, PhD

3306 Treatment of Aspirin-Exacerbated Respiratory Disease (AERD) in the Age of Biologics
10:45 am to 12:00 pm
Convention Center, 400 Level, Terrace Ballroom II
Credits: 1.25 CME/CE
Moderator: Elina Jerschow, MD FAAAAI
10:45 Aspirin Desensitization for AERD in 2020: An Update from the AERD Work Group
Whitney Stevens, MD PhD FAAAAI
10:45 Phenotype-Based Approach for the Management of Asthma Among Preschool Children
Leonard B. Bacharier, MD FAAAAI
11:10 Microbes and the Inception of Childhood Asthma: Hot Topics
Kirsten M. Kloepfer, MD MS FAAAAI
11:35 Primary Prevention of Asthma: What’s Done and Ongoing Trials
Wanda Phipatanakul, MD MS FAAAAI

3307 From Early Life Infections to Childhood Asthma: Hot Topics
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 118
Credits: 1.25 CME/CE
Moderator: Stanley J. Szefler, MD FAAAAI
10:45 Phenotype-Based Approach for the Management of Asthma Among Preschool Children
Leonard B. Bacharier, MD FAAAAI
11:10 Microbes and the Inception of Childhood Asthma: Hot Topics
Kirsten M. Kloepfer, MD MS FAAAAI
11:35 Primary Prevention of Asthma: What’s Done and Ongoing Trials
Wanda Phipatanakul, MD MS FAAAAI

3308 Recent Accomplishments in Peanut Allergy Research: An NIAID Symposium
10:45 am to 12:00 pm
Convention Center, 400 Level, Terrace Ballroom I
Credits: 1.25 CME/CE
Moderator: Alkis Togias, MD FAAAAI
10:45 Genetics of Peanut Allergy
Rasika A. Mathias, PhD
11:10 Peanut Oral Immunotherapy in Infants and Toddlers
Stacie M. Jones, MD
11:35 Modeling the Effects of Early Introduction of Peanut-Containing Foods on the Prevalence of Peanut Allergy at the Population Level
Gideon Lack, MD

3309 Venom Immunotherapy: Flying Hymenoptera, Imported Fire Ant and Doses/Schedules/Duration for Each
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 115
Credits: 1.25 CME/CE
Moderator: David F. Graft, MD
10:45 Imported Fire Ant
Theodore M. Freeman, MD FAAAAI
11:10 Flying Hymenoptera
David B.K. Golden, MD FAAAAI
11:35 Dosing, Schedules and Duration of Therapy
James M. Tracy, DO FAAAAI
Sunday Scientific Program

Symposia (continued)

3310  Working Together to Disseminate the AAAAI's Choosing Wisely Recommendations to Institutions, Hospitals and Other Specialties
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 120AB
Credits: 1.25 CME/CE
Moderator: Asriani M. Chiu, MD FAAAAI

10:45  How to Effectively Communicate AAAAI's Choosing Wisely Recommendations to Our Own Specialty Through Fellowship and Peer and Regional Society Meetings
Jeffrey G. Demain, MD FAAAAI

11:10  How to Effectively Communicate AAAAI's Choosing Wisely Recommendations to Other Specialties (i.e., PCPs, Hospitalists, Radiologists, ER Physicians)
Kristin C. Sokol, MD MS MPH FAAAAI

11:35  How to Effectively Communicate AAAAI's Choosing Wisely Recommendations to Accountable Care Organizations (ACO's) and Hospital Administration
John Oppenheimer, MD FAAAAI

3311  Primary Disorders of Mast Cells: More Common Than You Thought  
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 126
Credits: 1.25 CME/CE
Moderator: Lawrence B. Schwartz, MD PhD FAAAAI

10:45  Mastocytosis
Dean D. Metcalfe, MD, MS, FAAAAI

11:10  Hereditary Alpha Tryptasemia
Jonathan Lyons, MD

11:35  Novel Treatments for Mastocytosis
Cem Akin, MD PhD FAAAAI

Allied Health Symposia

3312  Allied Health: Managing Your Food Allergy Patient in Clinical Practice
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 108
Credits: 1.25 CME/CE
Moderator: Maria Crain, RN MA CPNP

10:45  Managing Food Allergy from the Medical Perspective
J. Andrew Bird, MD FAAAAI

11:10  Management of the Food Allergy Patient from a Nutritional Perspective
April Clark, RDN CSP

11:35  Managing the Quality of Life Issues that Affect Food Allergic Patients and Families
Megan Ott Lewis, MSN CRNP

3313  Allied Health: Allergic Asthma Management: Key Components to Control
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 109
Credits: 1.25 CME/CE
Moderator: Megan Valentino, RN

10:45  Special Concerns in Inner-City Populations
Marciorose Winston, MSN CPNP AE-C

11:10  Elements of Environmental Controls
Elisa C. Thompson, NP

11:35  The Role of Biologics in the Treatment of Patients with Asthma
Sarah E. Henricksen, MD PhD

Training Stations

3401  Oral Food Challenges
12:00 to 2:00 pm
Convention Center, 200 Level, Hall D
Credits: 0.25 CME/CE
Station Leader: J. Andrew Bird, MD FAAAAI
Sara Anvari, MD MSc FAAAAI
S. Allan Bock, MD FAAAAI
Irene Mikhail, MD FAAAAI
Kim E. Mudd, RN MSN CCRP
Gita Ram, MD
Justin Schwartz, MD PhD
Amy M. Scurlock, MD
Berber Vlieg-Boerstra, PhD RD

3402  Subcutaneous Immunotherapy: How to Select Your Allergens and Prepare Your Vials
12:00 to 2:00 pm
Convention Center, 200 Level, Hall D
Credits: 0.25 CME/CE
Station Leader: Mike Tankersley, MD MBA FAAAAI
Annette Carlisle, MD
Harold S. Nelson, MD FAAAAI
Anita Sivam, DO

3403  House Calls in the 21st Century: Making Telemedicine Work in Your Practice
12:00 to 2:00 pm
Convention Center, 200 Level, Hall D
Credits: 0.25 CME/CE
Station Leader: Reena S. Mehta, MD FAAAAI
Justin C. Greiwe, MD FAAAAI
Nathanial D. Hare, MD FAAAAI
Jennifer A. Shih, MD
Teresa Thompson, CPC CMSCS CCC

Seminars

3501  The Smart Home Health and Fitness Revolution: Helping Patients Utilize Personal Health Technology
12:30 to 1:30 pm
Marriott, Level 4, Franklin 2
Credits: 1.00 CME/CE
Discussion Leaders: Andrew J. Cooke, MD
Sharmilee M. Nyenhuis, MD FAAAAI

Boxed Lunch included. Sessions and meals are limited to 30 people.
### Seminars (continued)

<table>
<thead>
<tr>
<th>Seminar</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Discussion Leaders</th>
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</thead>
<tbody>
<tr>
<td>3502</td>
<td>Small Molecule Targets for Asthma and Allergic Disease: Lost in the Sea of Biologics?</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 3</td>
<td>1.00 CME/CE</td>
<td>David B. Corry, MD PhD FAAAAI Angela Haczku, MD PhD FAAAAI</td>
</tr>
<tr>
<td>3503</td>
<td>Occupational Asthma Due to Inhaled Food Allergens</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 4</td>
<td>1.00 CME/CE</td>
<td>Santiago Quirce, MD PhD Mohamed F. Jeebhay, MBChB MPhil MPH PhD</td>
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<tr>
<td>3504</td>
<td>Managing Food Allergies (Immunoglobulin E (IgE) or Non-IgE Mediated) in Breast-Fed Infants</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 5</td>
<td>1.00 CME/CE</td>
<td>Puja Sood Rajani, MD Rosan Meyer, PhD RD</td>
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<tr>
<td>3505</td>
<td>Nasal Allergen Provocation and Local Allergic Rhinitis in Clinical Practice</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 6</td>
<td>1.00 CME/CE</td>
<td>Paloma Campo, MD PhD FAAAAI Martin Wagenmann, MD FAAAAI</td>
</tr>
<tr>
<td>3506</td>
<td>Confounders of Mast Cell Activation Syndrome (MCAS): Approaches to the Symptomatic Patient When the Criteria for MCAS are Not Met</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 7</td>
<td>1.00 CME/CE</td>
<td>Charity C. Fox, MD FAAAAI Anne L. Maitland, MD PhD</td>
</tr>
<tr>
<td>3507</td>
<td>Anaphylaxis in Infants</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 8</td>
<td>1.00 CME/CE</td>
<td>Julie Wang, MD FAAAAI Michael Pistiner, MD MMSc</td>
</tr>
<tr>
<td>3508</td>
<td>Late Effects of Stem Cell Transplant for Primary Immunodeficiencies</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 9</td>
<td>1.00 CME/CE</td>
<td>Jennifer Heimall, MD FAAAAI Jennifer W. Leiding, MD FAAAAI</td>
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<tr>
<td>3509</td>
<td>Nuts and Bolts of Setting up Your Practice to Administer Biologic Therapies</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 10</td>
<td>1.00 CME/CE</td>
<td>Weily Soong, MD FAAAAI Paul V. Williams, MD FAAAAI</td>
</tr>
<tr>
<td>3510</td>
<td>Mast Cell Activation in Infants and Children: Are Adult Criteria Realistic?</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 11</td>
<td>1.00 CME/CE</td>
<td>Melody C. Carter, MD FAAAAI Matthew P. Giannetti, MD</td>
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<tr>
<td>3511</td>
<td>Lessons Learned from Severe Asthma Clinics: An Interdisciplinary Approach</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 12</td>
<td>1.00 CME/CE</td>
<td>William C. Anderson III, MD FAAAAI Nadia L. Krupp, MD</td>
</tr>
<tr>
<td>3512</td>
<td>There's an App for That: The Use of Mobile Technology in Clinical Practice</td>
<td>12:30 to 1:30 pm</td>
<td>Marriott, Level 4, Franklin 13</td>
<td>1.00 CME/CE</td>
<td>Melinda M. Rathkopf, MD FAAAAI Nabeel Farooqui, MD FAAAAI</td>
</tr>
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</table>
Sunday Scientific Program

Course

3520 Asthma Educators Course: Day One
12:30 pm to 6:00 pm
Convention Center, 100 Level, Room 111
Credits: 5.00 CME/CE
Moderators: Karen L. Gregory, DNP APRN-BC RRT AE-C
Maureen George, PhD RN AE-C

12:30 Registration and Introduction
1:00 Taking the National Educator Certification Exam
2:00 Asthma Epidemiology
3:00 Break
3:30 History, Physical Exam and Assessment of Severity/Control
5:00 Spirometry for Asthma Educators

Symposium

3521 National Heart, Lung, and Blood Institute (NHLBI): Opportunities for Asthma Research in the Era of Big Data
12:30 to 1:45 pm
Convention Center, 400 Level, Terrace Ballroom II
Credits: 1.25 CME/CE
Moderator: James P. Kiley, PhD

12:30 Introduction of TOPMed and How It Empowers Asthma Research
Kathleen C. Barnes, PhD FAAAAI

12:45 Pharmacogenomics Study of Asthma Using ATGC Data: The Biggest Asthma Treatment Dataset in the TOPMed
Esteban Gonzalez Burchard, MD MPH

1:00 Asthma Research: From Family-Based Linkage Study to Multi-Omics Based Systems Biology Approach
Jessica Lasky Su, ScD

1:15 Discovering Pediatric Asthma Phenotypes on the Basis of Response to Controller Medication Using Machine Learning
Mindy Ross, MD

1:30 Harmonization of Clinical and Imaging Data Across Cohort Studies in the TOPMed Supporting Large Scale Data Analysis of Lung Diseases
Elizabeth C. Oelsner, MD MPH

Pro/Con Debates

3551 All Patients Suspected of Metal Allergy Should Be Patch Tested
12:30 to 1:30 pm
Convention Center, 400 Level, Terrace Ballroom IV
Credits: 1.00 CME/CE
Moderator: Marcella R. Aquino, MD FAAAAI

To Patch Test: Metal Allergy Evaluation
Karin A. Pacheco, MD MSPH FAAAAI

Not to Patch Test: Metal Allergy Evaluation
James S. Taylor, MD

3552 Concerns and Controversies of Vaping
12:30 to 1:30 pm
Convention Center, 400 Level, Terrace Ballroom III
Credits: 1.00 CME/CE
Moderator: Neil Alexis, PhD

Panelists: Ilona Jaspers, PhD
Jay M. Portnoy, MD FAAAAI

3553 Patients with Food Allergies Need to Avoid Packaged Food Products with Precautionary Labeling
12:30 to 1:30 pm
Convention Center, 400 Level, Terrace Ballroom I
Credits: 1.00 CME/CE
Moderator: Brian P. Vickery, MD FAAAAI

Patients with Food Allergies Need to Avoid Packaged Food Products with Precautionary Labeling
Scott H. Sicherer, MD FAAAAI

Patients with Food Allergies Do not Need to Avoid Packaged Food Products with Precautionary Labeling
David R. Stukus, MD FAAAAI

Oral Abstract Sessions

3601 Drug Allergy
2:00 to 3:15 pm
Convention Center, 400 Level, Terrace Ballroom IV
Credit: 1.25 CME/CE
Moderator: Costby Stone, Jr., MD MPH

1:15 Implementation of Proactive Penicillin Allergy Evaluation in Pregnancy
Jamie L. Waldron, MD

2:15 Implementation of Proactive Penicillin Allergy Evaluation in Pregnancy
Chandra Vethody, MD

2:30 Immediate Hypersensitivity Reaction to Chemotherapy in Pediatric Malignancies
Chanaphorn Mokkhamakkun, MD

2:45 Reported drug allergies among patients with opioid use disorder
Lily Li, MD

3:00 Penicillin Allergy Testing by Allergy Trained Pharmacists in Hospitalized Patients
Whitney Blackwell, MD
Sunday Scientific Program

Asthma Epidemiology, Risk Factors and Outcomes
3:00 Disease Specific Certification Asthma Center May Lead To Lower Adult Asthma Emergency Room Visits
Mary Ann E. Michalis, MD FAAAAI

A Retrospective Analysis of Bronchiectasis in Patients with Aspirin-Exacerbated Respiratory Disease
Yih-Chieh Chen

Childhood factors that predict persistence of severe asthma from late adolescence through early adulthood
Ronina Covar, MD FAAAAI

Telehealth Enhanced Asthma Management (TEAM)
Jessica H. Turner, MPH

Associations between active maternal atopy in pregnancy and offspring asthma risk: Effect modification by prenatal dietary long-chain polyunsaturated fatty acid intake
Julie Flom, MD PhD MPH

Immunology of Allergy
2:00 to 3:15 pm
Convention Center, 100 Level, Room 113
Credit: 1.25 CME/CE

Evaluation of the high affinity IgE receptor alpha-IgG1 Fc fusion protein (FCER1A-Fc) as a topical ocular anti-allergic agent
Toshiki Homma

Chlamydia pneumoniae decreases CD4+ and CD8+ T effector memory IL-2 responses in stimulated peripheral blood mononuclear cells in non-asthmatic subjects
Sarah Shield

Mechanisms of Allergen Capture by Skin DC Differ between naive and sensitized individuals in a specific-IgG dependent manner
Pierre-Louis Hervé

Analysis of Non-Human Proteins/Peptides in Human Breast Milk by Mass Spectrometry
Kathleen Luskin, MD

Eosinophils modify the relationship between Staphylococcus aureus colonization and respiratory outcomes in the US population.
Amanda McCormack

Fungi and Respiratory Health
2:00 to 3:15 pm
Convention Center, 100 Level, Room 115
Credit: 1.25 CME/CE

Detection of Environmentally Ubiquitous Vishniacozyma victoriae (syn. Cryptococcus victoriae) in the Homes of Asthmatic and Non-asthmatic Children in New York City
Rachael E. Rush

Correlation of atmospheric mold with the upper airway mycobiomes of healthy volunteers.
Paul B. Keiser, MD

Associations of Fungal Taxa with Neighborhood Asthma Prevalence in House Dust from Asthmatic Children in the NAAS Cohort
Samuel Cochran, BS

Fungal allergen production in floor dust: The effects of relative humidity, house dust, and carpet fiber material
Karen C. Dannemiller

Anti-Alternaria IgE antibodies are associated with emergency department visits among low-income children with asthma in New York City
Adnan Divjan

Advances in Eosinophilic Esophagitis
2:00 to 3:15 pm
Convention Center, 100 Level, Terrace Ballroom II
Credit: 1.25 CME/CE

Food Allergen Specificity of Circulating T cells in Eosinophilic Esophagitis Patients
Juliana Dilillo

TNF Superfamily Member 14 (TNFSF14/LIGHT) Is Present In Eosinophilic Esophagitis And Promotes A Pro-Inflammatory Phenotype In Esophageal Fibroblasts
Mario J. Cabrero Manresa, PhD

Budesonide Oral Suspension Improves Histologic Features In Patients With Eosinophilic Esophagitis: Results From A Phase 3, Randomized, Double-blind, Placebo-Controlled Trial
Margaret H. Collins, MD

Examination of Aeroallergen-Specific Immunoglobulin G4 (sIgG4) in Patients with Eosinophilic Esophagitis (EoE)
Rung-Chi Li, DO PhD

AK002, an Anti-Siglec-8 Antibody, Depletes Tissue Eosinophils and Improves Dysphagia Symptoms in Patients with Eosinophilic Esophagitis
Ikou Hirano, MD
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<th>Oral Abstract Sessions (continued)</th>
<th>Innate Immune Regulation of Airway Inflammation</th>
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<tr>
<td><strong>3606</strong> Quality Improvement: Let’s Make Our Practices Better!</td>
<td>2:00 to 3:15 pm</td>
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<td>2:00 to 3:15 pm</td>
<td>Convention Center, 100 Level, Room 119A</td>
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<tr>
<td>Convention Center, 100 Level, Room 119A</td>
<td>Credit 1.25 CME/CE</td>
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<tr>
<td>Credit: 1.25 CME/CE</td>
<td>Moderators: Qura-Tul-Ain Rashid, MD</td>
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<tr>
<td>Moderators: Qura-Tul-Ain Rashid, MD</td>
<td>Jaclyn Bijlac, MD</td>
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<tr>
<td>2:00 Development of an Antibiotic Allergy Program to Address a</td>
<td>2:00 Activation of TLR3 Inhibits Innate Type 2 Immune Responses</td>
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<tr>
<td>Clinical Gap in the Antibiotic Stewardship of Cystic Fibrosis</td>
<td>Induced by Alternaria in the Airways</td>
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<tr>
<td>Patients</td>
<td>Rinna Tei, MD</td>
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<tr>
<td>Karen M. Anstey, MD</td>
<td>2:15 Reduced innate immunity in asthma compensated by enhanced</td>
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<tr>
<td>2:15 Pediatrician Knowledge and Implementation of the 2017 NIAID</td>
<td>anti-viral type 2 responses against experimental rhinovirus (RV)</td>
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<tr>
<td>Addendum Guidelines for Prevention of Peanut Allergy</td>
<td>inoculation</td>
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<tr>
<td>Lauren Rothstein, MD</td>
<td>Laura Haczku, MD PhD FAAAAI</td>
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<tr>
<td>2:30 Using the Electronic Health Record and a School-based Education</td>
<td>2:30 Exposure of allergic subjects to ragweed pollen in a pollen</td>
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<tr>
<td>Program to Increase Asthma Management Plan Creation</td>
<td>exposure chamber recruits neutrophils that stimulate IL-33</td>
</tr>
<tr>
<td>Nicholas J. Antos, MD</td>
<td>secretion from airway epithelial cells</td>
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<tr>
<td>2:45 Improving Knowledge of Epinephrine Auto-injector use and</td>
<td>2:45 Novel protease-activated receptor 2 antagonist as a therapeutic</td>
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<tr>
<td>Peanut Guidelines at an Academic Medical Center</td>
<td>molecule for allergic airway diseases</td>
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<tr>
<td>Girish Vitalpur, MD FAAAAI</td>
<td>Larry Borish, MD FAAAAI</td>
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<tr>
<td>3:00 Longitudinally Evaluating the Impact of the ASTHMAXcel</td>
<td>3:00 Human rhinovirus HRV16 induces antiviral responses and inhibits</td>
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<tr>
<td>Adventures Mobile App on Asthma Knowledge, Clinical Outcomes,</td>
<td>regeneration of human lung microvascular endothelium</td>
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<td>and Patient Satisfaction in a Pediatric Population</td>
<td>Maciej Chalubinski, MD PhD</td>
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<tr>
<td>Brian Hsia</td>
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<tr>
<td><strong>3607</strong> The Realm of Rhinosinusitis</td>
<td>2:00 Local Airway Concentration of Anti-Tryptase Antibody</td>
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<tr>
<td>2:00 to 3:15 pm</td>
<td>(MTPS9579A) Predicts Extent of Tryptase Disruption</td>
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<tr>
<td>Convention Center, 100 Level, Room 118</td>
<td>Sharon Rymut, PhD</td>
</tr>
<tr>
<td>Credit 1.25 CME/CE</td>
<td>2:15 Dupilumab as add-on therapy for aspirin-exacerbated respiratory</td>
</tr>
<tr>
<td>Moderator: Anita Sivam, DO</td>
<td>disease (AERD)</td>
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<tr>
<td>2:00 Dupilumab Treatment Improves Sense of Smell in Patients With</td>
<td>Shahzad Mustafa, MD FAAAAA</td>
</tr>
<tr>
<td>Chronic Rhinosinusitis With Nasal Polyps – Pooled Results From</td>
<td>2:30 Dupilumab Reduces Oral Corticosteroid Use and Severe</td>
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<tr>
<td>the SINUS-24 and SINUS-52 Phase 3 Trials</td>
<td>Exacerbations and Improves Lung Function in Patients With</td>
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<tr>
<td>Joaquim Mullol, MD PhD FAAAAI</td>
<td>Oral Corticosteroid-Dependent Severe Asthma With and Without</td>
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<tr>
<td>2:15 Addition of Sealant Significantly Augments the Effect of Nasal</td>
<td>Comorbid Allergic Rhinitis in the Phase 3 LIBERTY ASTHMA</td>
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<td>Steroid Against the Resurgence of Nasal Polyps</td>
<td>VENTURE Stud</td>
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<tr>
<td>Lawrence Dubuske, MD FAAAA</td>
<td>Mario Castro, MD MPH</td>
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<tr>
<td>2:30 Endotyping of chronic rhinosinusitis with nasal polyp based on</td>
<td>2:45 Delays in Administration of Biologics due to the Prior</td>
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<tr>
<td>eosinophil, mast cell and basophil microparticles in nasal lavage</td>
<td>Authorization Process and Risk of Exacerbations Requiring</td>
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<td>fluid</td>
<td>Systemic Corticosteroids</td>
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<tr>
<td>Toru Takahashi, MD PhD</td>
<td>Gregor J. Dudiak</td>
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<tr>
<td>2:45 Comparison of Surgical Outcomes in Chronic Rhinosinusitis</td>
<td>3:00 Three-Year Safety and Efficacy of Bencralizumab for Adolescent</td>
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<tr>
<td>based on Allergic Sensitization</td>
<td>Patients with Severe, Uncontrolled Asthma: Results of the BORA</td>
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<tr>
<td>Grace Lee</td>
<td>Extension Study</td>
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<tr>
<td>3:00 Mitochondrial Oxidative Stress and Damage Is Associated with</td>
<td>William W. Busse, MD FAAAAA</td>
</tr>
</tbody>
</table>
### Sunday, March 15

#### Oral Abstract Sessions (continued)

**3611  Late Breaking Oral Abstract Session**
- **2:00** Effects of Combined Treatment with Cat Allergen Immunotherapy and Tezepelumab on Nasal Allergen Challenge
  Jonathan Corren, MD FAAAAI
- **2:15** Superior Turbinate Eosinophilia Strongly Predicts Postoperative Olfactory Deterioration in Patients with Chronic Rhinosinusitis
  Dawei Wu, MD PhD
- **2:30** The Mechanisms of Atopic Dermatitis to Asthma in Children (MPAACH) Cohort: Novel Atopic Dermatitis Endotypes
  Jocelyn Biagini Myers, PhD
- **2:45** Intradermal Skin Testing and Oral Challenge for Patients Labeled as Fluoroquinolone Allergic
  Matthew S. Krantz, MD
- **3:00** Tolerance Development Following Oral Immunotherapy (OIT) in 1-3 Year Old Children with Peanut Allergy: Findings from the Immune Tolerance Network (ITN) IMPACT TRIAL
  Stacie M. Jones, MD

**3701  ADDA: Epinephrine for Anaphylaxis: What Do We Know and What Do We Need?**
- **3:30** Business Meeting
  - Moderator: Roland Solensky, MD FAAAAI
- **4:00** Epinephrine for Anaphylaxis: What Do We Know and What Do We Need?
  - David B.K. Golden, MD FAAAAI

**3702  ADT: Biologics in Asthma Endotypes: Focus on Aspirin-Exacerbated Respiratory Disease and Allergic Bronchopulmonary Aspergillosis**
- **3:30** Business Meeting
  - Moderator: Caroline C. Horner, MD FAAAAI
- **4:00** Biologics in Asthma Endotypes: Focus on Aspirin-Exacerbated Respiratory Disease and Allergic Bronchopulmonary Aspergillosis
  - Katharine M. Woessner, MD FAAAAI

**3703  BCI: Precision Medicine in Primary Immunodeficiency: Are We There Yet?**
- **3:30** Business Meeting
  - Moderator: Francisco A. Bonilla, MD FAAAAI
- **3:35** Speaker Introduction
- **4:00** Precision Medicine in Primary Immunodeficiency: Are We There Yet?
  - Jordan S. Orange, MD FAAAAI

**3704  EORD: The Increasing Complexity of the Environment: Homogenized “Dead” Milk, Tick Bites and Dust Mites Produce Different Immunological and Clinical Outcomes**
- **3:30** Business Meeting
  - Moderator: Andrew H. Liu, MD FAAAAI
- **4:00** The Increasing Complexity of the Environment: Homogenized “Dead” Milk, Tick Bites and Dust Mites Produce Different Immunological and Clinical Outcomes
  - Thomas A.E. Platts-Mills, MD PhD FAAAAI

**3705  FAED: Tough Nut to Crack: Insights Into Diagnosis and Immunotherapy for Food Allergy**
- **3:30** Business Meeting
  - Moderator: Anna H. Nowak-Wegrzyn, MD PhD FAAAAI
- **4:00** Evolution of Immune Response in Food Immunotherapy
  - Wayne G. Shreffler, MD PhD FAAAAI

**3706  HEDQ: Actionable Ways to Improve Wellness for Allergy/Immunology Clinicians**
- **3:30** Business Meeting
  - Moderator: Matthew A. Rank, MD FAAAAI
- **4:00** Redefining Physician Wellness in Allergy and Immunology
  - Anil Nanda, MD FAAAAI

**3707  IRSO: Rhinitis and Rhinosinusitis: Looking Back and Looking Forward**
- **3:30** Business Meeting
  - Moderator: Mike Tankersley, MD MBA FAAAAI
- **4:00** The Top 5 Immunotherapy Articles in the Last 50 Years that Changed Our Practice
  - Harold S. Nelson, MD FAAAAI
MAAI: The Role of the Microbiome in Allergic Disease

3:30 to 4:30 pm
Convention Center, 100 Level, 120AB
Credits: 0.50 CME/CE
Moderator: Cem Akin, MD PhD FAAAAI

3:30 Business Meeting

4:00 The Role of the Microbiome in Allergic Disease
Susan V. Lynch, PhD

Featured Poster Session and Reception

4:45 to 6:15 pm
Convention Center, 400 Level, Terrace Ballroom Concourse
Credit: 0.00 CME/CE
Please refer to the 2020 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

560-564 Novel Approaches to Beta-Lactam Allergy
565-569 New Insights in Asthma Genomics and Cell Signaling
570-574 Top Topics in Basic and Clinical Immunology
575-579 Highlights of Environmental Microbes, Chemicals and Foods in Disease
580-584 Highlights of Peanut Allergy
585-589 Healthcare Disparities
590-594 Headlines in Immunotherapy, Rhinitis, Sinusitis and Ocular Disease
595-599 Mechanistic Highlights in Asthma, Allergy and Immunology
600-604 Highlights in Clinical Practice
More to Find!
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• Alerts to stay updated on content
• Article figures can be downloaded in PowerPoint format

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The American Academy of Allergy, Asthma & Immunology (AAAAI) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.
Monday At-A-Glance

Monday, March 16

6:00 AM
Registration
6:30 am - 4:00 pm

7:00 AM
Poster Hall
7:00 am - 2:00 pm

8:00 AM
Seminars
7:00 - 8:00 am

9:00 AM
Plenary Session
8:15 - 9:45 am

10:00 AM
Symposia
10:45 am - 12:00 pm

11:00 AM
Exhibit Hall
9:45 am - 2:00 pm
Poster Presentations & Case Study Posters
9:45 - 10:45 am

12:00 PM
AAAAI Business Meeting
12:30 - 1:30 pm

1:00 PM
Asthma Educators Course - Day Two
8:00 am - 4:00 pm

2:00 PM
Oral Abstracts
2:00 - 3:15 pm

3:00 PM
Seminars
3:30 - 4:30 pm

4:00 PM
Workshops
3:30 - 4:45 pm

5:00 PM

6:00 PM
Monday Scientific Program

Seminars

Continental Breakfast included. Sessions and meals are limited to 30 people.

4001 Using Component Based Diagnostics and Effective Allergen Doses for Diagnosis and Subcutaneous Immunotherapy Treatment

7:00 to 8:00 am
Marriott, Level 4, Franklin 2
Credits: 1.00 CME/CE
Discussion Leaders: Jörg R. Kleine-Tebbe, MD FAAAAI
Olga Luengo, MD PhD

4002 Exercise-Induced Anaphylaxis: Food- and Drug-Dependent and Independent

7:00 to 8:00 am
Marriott, Level 4, Franklin 3
Credits: 1.00 CME/CE
Discussion Leaders: Mario Geller, MD FAAAAI
Anna M. Feldweg, MD

4003 Urban Pediatric Mobile Asthma Care Delivery Systems: Challenges and Creative Solutions from the Breathmobile Programs

7:00 to 8:00 am
Marriott, Level 4, Franklin 4
Credits: 1.00 CME/CE
Discussion Leaders: Lyne G. Scott, MD FAAAAI
Mary Beth Bollinger, DO FAAAAI

4004 Non-Immunoglobulin E-Mediated Food Allergy: A Practical Approach for Recognition and Treatment

7:00 to 8:00 am
Marriott, Level 4, Franklin 5
Credits: 1.00 CME/CE
Discussion Leaders: Antonella Cianferoni, MD PhD FAAAAI
Seema Sharma Aceves, MD PhD FAAAAI

4005 The Use of Biologic Therapies for the Treatment of Hereditary Angioedema

7:00 to 8:00 am
Marriott, Level 4, Franklin 6
Credits: 1.00 CME/CE
Discussion Leaders: Timothy J. Craig, DO FAAAAI
Marc A. Riedl, MD MS

4006 The Role of the Practicing Allergist in the Management of Eosinophilic Esophagitis

7:00 to 8:00 am
Marriott, Level 4, Franklin 7
Credits: 1.00 CME/CE
Discussion Leaders: Ellen R. Sher, MD FAAAAA
Karen S. Heu Blatman, MD FAAAAA

4007 Quality Improvement: Where to Begin and How to Succeed

7:00 to 8:00 am
Marriott, Level 4, Franklin 8
Credits: 1.00 CME/CE
Discussion Leaders: Sujani Kakumanu, MD FAAAAI
Paige G. Wickner, MD FAAAAI

4008 Autoimmune Mimics of Allergic Diseases

7:00 to 8:00 am
Marriott, Level 4, Franklin 9
Credits: 1.00 CME/CE
Discussion Leaders: Teresa K. Tarrant, MD FAAAAA
Jennifer Heimall, MD FAAAAI

4009 Reviewing the 2017 ATS Updates to the 2005 ATS/ERS Guidelines: How to Perform, Interpret and Report Spirometry

7:00 to 8:00 am
Marriott, Level 4, Franklin 10
Credits: 1.00 CME/CE
Discussion Leaders: James M. Quinn, MD FAAAAA
Karla E. Adams, MD

4010 Non-Eosinophilic Asthma: Novel Biomarkers and Potential Therapeutic Targets

7:00 to 8:00 am
Marriott, Level 4, Franklin 11
Credits: 1.00 CME/CE
Discussion Leaders: Rafeul Alam, MD PhD FAAAAI
Juan Carlos Cardet, MD

4011 How to Best Use Component Testing for Food Allergy in Clinical Practice

7:00 to 8:00 am
Marriott, Level 4, Franklin 12
Credits: 1.00 CME/CE
Discussion Leaders: Jacob D. Kattan, MD FAAAAA
Motohiro Ebisawa, MD PhD FAAAAA

4012 Partnering with Federally Qualified Health Centers to Advance Research, Education and Specialty Care in Allergy/Immunology for Underserved Patients

7:00 to 8:00 am
Marriott, Level 4, Franklin 13
Credits: 1.00 CME/CE
Discussion Leaders: John C. Carlson, MD PhD
Maureen George, PhD RN AE-C
Monday, March 16

**Course**

**4020 Asthma Educators Course: Day Two**

8:00 am to 4:00 pm

Convention Center, 100 Level, Room 111

Credits: 7.00 CME/CE

Moderators: Karen L. Gregory, DNP APRN-BC RRT AE-C
Maureen George, PhD RN AE-C

- 8:00 Pharmacotherapy
- 9:30 Educational Needs
- 11:00 Devices Workshop
- 11:30 Professional Networking, Referral and Outcomes
- 12:00 Lunch
- 1:00 Co-Morbidities and Treatment Interventions: Behavioral, Environmental, Pharmacological
- 2:30 Culturally Sensitive Approaches to Asthma
- 3:00 Complicated Asthma, Comprehensive Case

**Posters**

9:45 to 10:45 am

Convention Center, 200 Level, Hall D

Credit: 0.00 CME/CE

Please refer to the 2020 AAAAI Annual Meeting Mobile App or www.jacionline.org for abstract details.

- **605-637 Atopic Dermatitis**
- **638-651 Urticaria/Angioedema**
- **652-670 Asthma Epidemiology and Outcomes**
- **671-673 Chronic Cough**
- **674-684 Asthma Management with Technologies**
- **685-690 Immunology in Infancy**
- **691-701 Humoral Immunity**
- **702-726 Diagnosis of Food Allergy**
- **727-740 Management of Food Allergy**
- **741-747 Pollen Food Syndrome**
- **748-752 Adherence**
- **753-759 Education**
- **760-768 Rhinitis**
- **769-775 Mast Cell Disorders and Update on Innate Immune Mechanisms**
- **L11-L42 Late Breaking**

**Plenary**

**4101 Rhinoviruses, Atopy and Asthma Exacerbations: Implications for Management in an Era of Biologics and Precision Medicine**

8:15 to 9:45 am

Convention Center, 200 Level, Hall D

Credits: 1.50 CME/CE

Moderator: Wanda Phipatanakul, MD MS FAAAAI

- 8:20 Virus-Induced Exacerbations: Epidemiology and Risk Factors
  - James E. Gern, MD FAAAAI
- 8:50 Mechanisms of Exacerbations: Role of Atopy and Biologic Therapies
  - Matthew C. Altman, MD
- 9:20 Genetic Susceptibility to Virus-Induced Exacerbations in the Era of Precision Medicine
  - Kathleen C. Barnes, PhD FAAAAI

**Symposia**

**4301 Hereditary Angioedema: Triumphs of Medical Progress**

10:45 am to 12:00 pm

Convention Center, 100 Level, Room 118

Credits: 1.25 CME/CE

Moderator: Douglas T. Johnston, DO FAAAAI

- 10:45 Bench to Bedside: Understanding the Pathophysiology
  - Bruce L. Zuraw, MD
- 11:10 Discovery of Novel Mutations and Biomarkers
  - Marc A. Riedl, MD MS
- 11:35 Guideline-Based Care in the New Era With Novel Therapies
  - Aleena Banerji, MD FAAAAI
### Monday Scientific Program

#### Symposia (continued)

**4302** Mind, Brain and Immunity  
10:45 am to 12:00 pm  
**Convention Center, 100 Level, Room 120AB**  
Credits: 1.25 CME/CE  
Moderators: Maria L. Lara-Marquez, MD PhD  
Christina L. Nance, PhD MA FAAAAI

10:45 Getting Nervous About Immunity: The Times They are a-Changin'  
Keith W. Kelley, PhD

11:10 Catecholamine Regulation of T Helper Cell Responses during Antigen Presentation  
Richard D. Granstein, MD

11:35 Prenatal Maternal Stress, Hypothalamic–Pituitary–Adrenal Axis Activation and Immune Dysregulation: Molecular Mechanism of Increased Risk of Childhood Asthma  
Rosalind J. Wright, MD MPH

**4303** Cost Effectiveness of Biologic Therapy for Asthma  
10:45 am to 12:00 pm  
**Convention Center, 400 Level, Terrace Ballroom I**  
Credits: 1.25 CME/CE  
Moderator: Giselle S. Mosnaim, MD MS FAAAAI

10:45 Healthcare System Costs of Biologics  
Stanley J. Szefler, MD FAAAAI

11:10 Patient Related Costs of Severe Asthma  
Christopher D. Codispoti, MD PhD FAAAAI

11:35 Making an Informed Choice About Biologic Therapy Use from a Societal Cost and Individual Patient Perspective  
William C. Anderson III, MD FAAAAI

**4304** Therapeutic Interventions for Viral Infections and Asthma: Hope for Tomorrow  
10:45 am to 12:00 pm  
**Convention Center, 400 Level, Terrace Ballroom III**  
Credits: 1.25 CME/CE  
Moderator: Joshua L. Kennedy, MD FAAAAI

10:45 The Role of Biologics in Viral Infections and Asthma: Both Inception and Exacerbation  
Michelle A. Gill, MD PhD

11:10 Vaccination for Viral Infections and Asthma: What We Know and What We Don’t  
Sebastian L. Johnston, MD PhD

11:35 Anti-Viral Approaches to Asthma and Viral Infections: What Has Worked, What Has Not  
Nathan M. Bartlett, PhD

**4305** Eosinophilic Esophagitis (EoE): Novel Endotypes and Approaches to Management  
10:45 am to 12:00 pm  
**Convention Center, 400 Level, Terrace Ballroom IV**  
Credits: 1.25 CME/CE  
Moderator: Antonella Cianferoni, MD PhD FAAAAI

10:45 Phenotypic Characterization of EoE  
Mirna Chehade, MD MPH

11:10 Molecular and Histopathologic Endotypes of EoE  
Seema Sharma Aceves, MD PhD FAAAAI

11:35 Diet in EoE: Upscaling and Downsizing  
Alison Cassin, RN

**4306** An Update on Ocular Allergy (OA) Diagnosis and Treatment  
10:45 am to 12:00 pm  
**Convention Center, 100 Level, Room 121**  
Credits: 1.25 CME/CE  
Moderator: Patricia A. Takach, MD FAAAAI

10:45 Overview of Diagnostic Tools in OA  
Jean-Luc Fauquert, MD

11:10 Overview of Differential Diagnosis of OA  
Bryan L. Martin, DO FAAAAI

11:35 Advances and Innovations in Ocular Surface Treatment  
Leonard Bielory, MD FAAAAI

**4307** Managing Chronic Obstructive Pulmonary Disease (COPD) and Asthma-Chronic Obstructive Pulmonary Disease Syndrome (ACOS) in the Allergy-Immunology Practice Setting  
10:45 am to 12:00 pm  
**Convention Center, 400 Level, Terrace Ballroom II**  
Credits: 1.25 CME/CE  
Moderator: Carol A. Saltoun, MD FAAAAI

10:45 Updated COPD Global Initiative for Chronic Obstructive Lung Disease Guidelines for the Allergy/Immunology Provider  
Mario Castro, MD MPH

11:10 Updated Guidelines for ACOS  
Monica Kraft, MD FAAAAI

11:35 Antibody Deficiency in Patients with COPD Exacerbations  
Antoine Azar, MD FAAAAI

**4308** Personalized Medicine in Immunology: How Close are We to Harnessing the Power of T Cells?  
10:45 am to 12:00 pm  
**Convention Center, 100 Level, Room 126**  
Credits: 1.25 CME/CE  
Moderator: Elena E. Perez, MD PhD FAAAAI

10:45 Chimeric Antigen Receptors: T Cells Used in the Treatment of Lymphoma  
Marco Ruella, MD

11:10 Adoptive T Cell Therapy for Cancer: Does Raw Material Matter?  
Daniel J. Powell Jr., PhD

11:35 Update on the Use of Viral Specific T Cells  
Michael Keller, MD

**4309** Pulling Back the Curtain on Screening Tests for Allergies, Asthma, and Immunodeficiency  
10:45 am to 12:00 pm  
**Convention Center, 100 Level, Room 115**  
Credits: 1.25 CME/CE  
Moderator: David B. Peden, MD MS FAAAAI

10:45 Screening for Allergies and Asthma  
Marcus S. Shaker, MD MS FAAAAI

11:10 What Makes a Good Screening Test?  
Russell Harris, MD MPH

11:35 Screening for Immunodeficiency  
Jennifer M. Puck, MD
Monday Scientific Program

Symposia (continued)

4310 Immunoglobulin E (IgE), Th2 and Eosinophils: Beyond Allergic Inflammation
10:45 am to 12:00 pm
Convention Center, 100 Level, Room 119B
Credits: 1.25 CME/CE
Moderator: Caroline L. Sokol, MD PhD FAAAAI
10:45 IgE as an Anti-Tumor Molecule
Erika Jensen-Jarolim, MD
11:35 The Role of Th2 Cytokines and IgE in Surveillance of Epithelial Damage
Greg H. Crawford, DPhil
11:10 Tumoricidal Effects of Eosinophils
Ariel Munitz, PhD

Oral Abstract Sessions

4601 Atopic Dermatitis with a Side of Urticaria
2:00 to 3:15 pm
Convention Center, 100 Level, Room 118
Credit 1.25 CME/CE
Moderators: Jeffrey Chambliss, MD
Peck Ong, MD FAAAAI
2:00 Association of early life circulating TSLP differs by race among children with atopic dermatitis in the Mechanisms of Progression from Atopic Dermatitis to Asthma in Children (MPAACH) cohort
Liza B. Morrison, PhD
2:15 The IL-4Ra R576 polymorphism is associated with increased AD severity and promotes allergic skin inflammation.
Juan-Manuel Leyva-Castillo, PhD
2:30 Interaction between Early-Life Antibiotics Use and IL-13 Polymorphism in the Development of Atopic Dermatitis: COCOA Birth Cohort Study
Min Jee Park
2:45 Clinical Activity of AK002, an Anti-Siglec-8 Monoclonal Antibody, in Treatment-Refractory Chronic Urticaria
Sabine Altrichter, MD
3:00 Skin TEWL results show significant improvements with Trilipid emollient compared to controls in infants and young children
Kari Nadeau, MD PhD FAAAAI

AAAIS-423-1218

Symposia (continued)

to include the induction of all new Fellows and members approved in 2019
Monday, March 16, 12:30 to 1:30 pm
Convention Center, 100 Level, Room 108

Attend the 2020 AAAAI Annual Business Meeting

to include the induction of all new Fellows and members approved in 2019
Monday, March 16, 12:30 to 1:30 pm
Convention Center, 100 Level, Room 108
### Monday Scientific Program

#### Oral Abstract Sessions (continued)

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credit</th>
<th>Moderator</th>
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<tbody>
<tr>
<td><strong>4603</strong></td>
<td>Advancements in Immunomodulatory Mechanisms</td>
<td>2:00 to 3:15 pm</td>
<td>Convention Center, 100 Level, Room 120AB</td>
<td>1.25 CME/CE</td>
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<td></td>
<td>A Novel System To Explore T-Cell Correlates Of Cross-Protection To Rhinovirus In A Human Sequential Infection Model.</td>
<td>2:15</td>
<td>Alberta G. Paul, PhD</td>
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<td>Microbiota Suppresses Innate Type 2 Immune Responses in the lungs in Mice</td>
<td>2:30</td>
<td>Koji Iijima, PhD</td>
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<td>Efficacy of Dendritic Cell Based Immunotherapy for Patients with Pancreatic Cancer</td>
<td>2:45</td>
<td>Andrei Y. Hancharou</td>
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<td>A Novel Role for 15-Lipoxygenase Metabolites in Aspirin Exacerbated Respiratory Disease</td>
<td>3:00</td>
<td>Whitney Stevens, MD PhD FAAAAI</td>
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<td><strong>4604</strong></td>
<td>Epidemiology, Pathogenesis and Prevention of Food Allergy</td>
<td>2:00 to 3:15 pm</td>
<td>Convention Center, 100 Level, Room 113</td>
<td>1.25 CME/CE</td>
<td>TBD</td>
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<td>Prevalence and Characteristics of Multifood Allergy Among US Children with Food Allergy</td>
<td>2:00</td>
<td>Ozge Nur Aktas, MD</td>
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<td>Prenatal Egg Consumption and Infant Egg Sensitization in the CHILD Cohort</td>
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<td>Keely Loewen, MD</td>
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<td>Early Introduction of Peanut, Egg, and Milk Among Black and White Food-Allergic Children in the FORWARD Study</td>
<td>2:30</td>
<td>Jialing Jiang</td>
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<td>The Role of Bile Acids in Food Allergy and Responses to Oral Immunotherapy by Metabolomic Profiling</td>
<td>2:45</td>
<td>Yamini Virkud, MD FAAAAI</td>
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<td>Increased Costimulatory Molecule Expression in γ6-T Cells of Peanut Allergic Individuals</td>
<td>3:00</td>
<td>Levi Watkin, PhD</td>
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<td><strong>4605</strong></td>
<td>Important to Our Patients: Measuring Quality of Life and Disease Burden</td>
<td>2:00 to 3:15 pm</td>
<td>Convention Center, 100 Level, Room 119A</td>
<td>1.25 CME/CE</td>
<td>Nathaniel D. Hare, MD FAAAAI</td>
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<td>Examining the Relationship Between Two Pediatric Asthma-Related Quality of Life Metrics</td>
<td>2:00</td>
<td>Iris Lin</td>
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<td>Allow Children to Speak Up For Their Own Healthcare</td>
<td>2:15</td>
<td>Sunil K Saini, MD FAAAAI</td>
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<td></td>
<td>Quality Of Life in Patients with Food Allergy: A Systematic Review and Meta-Analysis of interventions Food Allergy Diagnosis and Immunotherapy Studies</td>
<td>2:30</td>
<td>Shu Cao</td>
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<td></td>
<td>A Standard Guideline for Albuterol Weaning in Pediatric Patients Admitted with an Asthma Exacerbation</td>
<td>2:45</td>
<td>Max Collard</td>
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<td>The Predictive Value of Pre-transplant Immunoglobulin Level on Health-Related Quality of Life Measures at 6 and 12 months after Lung Transplantation</td>
<td>3:00</td>
<td>Nicholas Borkowski</td>
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<td><strong>4606</strong></td>
<td>Immunotherapy and Diagnostics</td>
<td>2:00 to 3:15 pm</td>
<td>Convention Center, 100 Level, Room 126</td>
<td>1.25 CME/CE</td>
<td>Antonella Cianferoni, MD PhD FAAAAI</td>
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<td></td>
<td>The NASAL score: a novel murine radiologic grading score for sinus disease</td>
<td>2:00</td>
<td>Eugene H. Chang</td>
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<td>Clinical Validation of House Dust Mite Allergen Exposure in the Environmental Exposure Unit</td>
<td>2:15</td>
<td>Lubnaa Hossenbaccus</td>
<td></td>
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<tr>
<td></td>
<td>Clinical utility of diagnostic methods in respiratory allergy in pediatric patients.</td>
<td>2:30</td>
<td>Ana Prieto del Prado</td>
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<tr>
<td></td>
<td>Ragweed SLIT-Tablets Induce Similar Patterns of Allergen-Specific IgE and IgG4 Responses in Children and Adults with Allergic Rhinoconjunctivitis</td>
<td>2:45</td>
<td>Peter A. Wurtzen, PhD</td>
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<tr>
<td></td>
<td>Clinical Accuracy of Acoustic Rhinometry and Symptoms Score to Detect Allergic Reactivity in Nasal Allergen Challenge</td>
<td>3:00</td>
<td>Almundena Testera-Montes</td>
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</tr>
</tbody>
</table>
Monday Scientific Program

Oral Abstract Sessions (continued)

4607  Novel Mast Cell Signaling Pathways in Allergy
2:00 to 3:15 pm
Convention Center, 100 Level, Room 119B
Credit 1.25 CME/CE
Moderators: Cem Akin, MD PhD FAAAAI
Hans-Uwe Simon, MD PhD FAAAAI
2:00 Mice overexpressing the mast cell EP2 receptor exhibit a protective phenotype against House Dust Mite-induced airway alterations
Adrian Urbano
2:15 IL-3 Upregulates CD25 Expression on Human Mast Cells; Implications for IL-2 Presentation to T Regulatory Cells
Yuzhi Yin, MD PhD
2:30 Does detection of KIT D816V mutation in peripheral blood benefit the recognition of clonal mast cell disease in patients with anaphylaxis?
Leander P. De Puysseleyr
2:45 RNA Silencing: a Model to Explore the MRGPRX2-pathway in Cultured Human Mast Cells.
Jessy Elst, PhD
3:00 IL-4 signaling directly regulates IL-9 producing intestinal mast cell precursor (iMCP9) in experimental food allergy
Sunil Tomar

4608  Best Abstracts on Biologic Therapy for Skin, Gastrointestinal and Upper Airway Disease
2:00 to 3:15 pm
Convention Center, 100 Level, Room 115
Credit 1.25 CME/CE
Moderators: Paula J. Busse, MD FAAAAI
Michelle L. Hernandez, MD FAAAAI
2:00 Clinical Efficacy Of Benralizumab And Its Role In Modifying Mechanistic Pathways In Chronic Idiopathic Urticaria Refractory To H1-Antagonists
Unmesh Singh, MD PhD
2:15 Treatment of Hereditary Angioedema with the Mutation c.988A>G (p.K330E) in the Plasminogen Gene
Konrad Bork, MD PhD
2:30 Omeprazole treatment improves in vitro barrier function in three dimensional esophageal epithelial cultures.
Margaret C. Carroll
2:45 Dupilumab Improves Sinus Opacification in All Sinuses in Patients With Severe Chronic Rhinosinusitis With Nasal Polyps (CRSwNP): Results From the SINUS-24 Phase 3 Study
Joseph K. Han, MD FAAAAI
3:00 Omalizumab Improves Quality of Life in Patients with Chronic Rhinosinusitis with Nasal Polyps and Comorbid Asthma
Jonathan Corren, MD FAAAAI

Workshops

4701  Update from the US Food and Drug Administration
3:30 to 4:45 pm
Convention Center, 100 Level, Room 120AB
Credits: 1.25 CME/CE
Moderator: Paul A. Greenberger, MD FAAAAI
3:30 Advances in the Treatment of Food Allergy: An FDA Perspective
Kathleen S. Hise, MD
3:55 Regulatory Challenges Associated with Drug Development Programs for Sinusitis, Rhinitis, and Nasal Polyps
Rekha Jhamnani, MD
4:20 Hot Topics
Stacy Chin, MD

4702  Interleukin-33 (IL-33): Raising the Alarm
3:30 to 4:45 pm
Convention Center, 100 Level, Room 115
Credits: 1.25 CME/CE
Moderator: Patrick J. Brennan, MD PhD
3:30 Mechanisms of IL-33 Release
Hirohito Kita, MD
3:55 Platelets Are an Important Source of IL-33
Joshua A. Boyce, MD FAAAAI
4:20 Protease Processing Regulates IL-33 Activity
Jean-Philippe Girard

4703  Food Immunotherapy: Lessons from Research Studies
3:30 to 4:45 pm
Convention Center, 100 Level, Room 121
Credits: 1.25 CME/CE
Moderator: Edwin Kim, MD FAAAAI
3:30 Understanding the Risks and Benefits of Food Immunotherapy Options
Aikaterini Anagnostou, MD MSc PhD FAAAAI
3:55 Patient Selection and Documenting Patient Outcomes for Food Immunotherapy
Yamini Virkud, MD FAAAAI
4:20 Challenges Ahead for Food Immunotherapy
Christina Ciaccio, MD FAAAAI

4704  Epithelial Barrier in Allergic Diseases
3:30 to 4:45 pm
Convention Center, 100 Level, Room 119B
Credits: 1.25 CME/CE
Moderator: William W. Busse, MD FAAAAI
3:30 Epithelial Barrier Dysfunction in Allergic and Non-Allergic Rhinitis
Peter W. Hellings, MD
3:55 Epithelial Barrier Dysfunction in EoE
Nurit P. Azouz, PhD
4:20 The Role of Epithelium in Asthma
Angela Haczku, MD PhD FAAAAI
### Workshops (continued)

<table>
<thead>
<tr>
<th>Workshop Code</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Discussion Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>4705</td>
<td>Immunodeficiency Beyond the Infections</td>
<td>3:30 to 4:45 pm</td>
<td>Convention Center, 100 Level, Room 126</td>
<td>1.25 CME/CE</td>
<td>Richard L. Wasserman, MD PhD FAAAAI</td>
</tr>
<tr>
<td>3:30</td>
<td>The Burdens of Disease Experienced by Primary Immunodeficiency Diseases (PIDD) Patients</td>
<td>Charlotte Cunningham-Rundles, MD PhD FAAAAI</td>
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<tr>
<td>3:55</td>
<td>Quality of Life Measures in PIDD Patients</td>
<td>Mark Ballow, MD FAAAAI</td>
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<tr>
<td>4:20</td>
<td>Co-Morbid Disorders in PIDD Patients</td>
<td>Lisa J. Kobrynski, MD MPH FAAAAI</td>
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</table>

### Seminars

<table>
<thead>
<tr>
<th>Workshop Code</th>
<th>Title</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Discussion Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>4712</td>
<td>The Impact of the Microbiome on Allergic Diseases</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 2</td>
<td>1.00 CME/CE</td>
<td>Cecilia Berin, PhD, Talal A. Chatila, MD MSc</td>
</tr>
<tr>
<td>4713</td>
<td>A Case of Severe Cat Allergy in the Era of Precision Medicine: Molecular Allergen Testing</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 3</td>
<td>1.00 CME/CE</td>
<td>Magnus Borres, MD FAAAAI, Lakiea Wright, MD MPH FAAAAI</td>
</tr>
<tr>
<td>4714</td>
<td>When, How and What to Feed: Practical Approach to Infants at High Risk for Food Allergy</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 4</td>
<td>1.00 CME/CE</td>
<td>Alison M. Cassin, RD, Amanda L. Cox, MD FAAAAI</td>
</tr>
<tr>
<td>4715</td>
<td>Mast Cells as Source and Target of Extracellular Vesicles: From Bench to the Bedside</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 5</td>
<td>1.00 CME/CE</td>
<td>Yoseph A. Mekori, MD FAAAAI, Dean D. Metcalfe, MD MS FAAAAI</td>
</tr>
<tr>
<td>4716</td>
<td>The Challenge of Evaluating Perioperative Anaphylaxis</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 6</td>
<td>1.00 CME/CE</td>
<td>Pascale Dewachter, MD PhD, Dennis K. Ledford, MD FAAAAI</td>
</tr>
<tr>
<td>4717</td>
<td>An Asthma Case with Allergy Immunotherapy that Needs Proper Coding</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 7</td>
<td>1.00 CME/CE</td>
<td>Don A. Bukstein, MD FAAAAI, Gary N. Gross, MD FAAAAI</td>
</tr>
<tr>
<td>4718</td>
<td>Combining Biologic Therapies: Safe or Effective?</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 8</td>
<td>1.00 CME/CE</td>
<td>Thomas B. Casale, MD FAAAAI, Stephen P. Peters, MD PhD FAAAAI</td>
</tr>
<tr>
<td>4719</td>
<td>Genetic Testing for Immunodeficiency</td>
<td>3:30 to 4:30 pm</td>
<td>Marriott, Level 4, Franklin 9</td>
<td>1.00 CME/CE</td>
<td>Francisco A. Bonilla, MD PhD FAAAAI, Soma Jyonouchi, MD</td>
</tr>
</tbody>
</table>
2020 AAAAI Practice Management Workshop


Practical solutions for your practice challenges.
July 17-19 | Washington, DC

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ACGME Competency Index

To contribute to the development of our members as lifelong learners and to enhance the effectiveness of the CME activities it provides, the AAAAI uses the six competencies defined by the Accreditation Council for Graduate Medical Education (ACGME) to guide its educational programming decisions. The six competencies are:

- Patient Care
- Medical Knowledge
- Practice-Based Learning and Improvement
- Interpersonal and Communication Skills
- Professionalism
- Systems-Based Practice

All sessions at the Annual Meeting address the competencies of Patient Care and Medical Knowledge. Below is a list of sessions that address the other competencies:

**Interpersonal and Communication Skills**


**Practice-based Learning and Improvement**


**Professionalism**

0601, 1011, 1012, 1110, 1213, 1511, 1601, 1701, 1809, 1811, 2405, 2511, 2523, 2701, 2803, 3520, 3552, 3706, 4020

**Systems-Based Practice**


For more information about the ACGME’s physician competencies, visit http://www.acgme.org.
AbbVie BSG/Medical
1 North Waukegan Road
North Chicago, IL 60064
(720) 593-2731
https://www.abbvie.com
Booth #349
Other
AbbVie is a global, research-based biopharmaceutical company formed in 2013 following separation from Abbott Laboratories. The company’s mission is to use its expertise, dedicated people and unique approach to innovation to develop and market advanced therapies that address some of the world’s most complex and serious diseases. For further information on the company, visit www.abbvie.com.

Accredo
1640 Century Center Parkway
Memphis, TN 38134
(901) 381-5719
https://www.accredo.com
Booth #325
Other
Accredo is a full-service specialty pharmacy dedicated to the treatment of rare and complex conditions. Our comprehensive therapy management programs engage trained pharmacists, nurses, reimbursement specialists, and patient care representatives who provide enhanced support services to patients, their families and healthcare professionals.

Advanced InfusionCare
212 Northside Drive
Valdosta, GA 31602
(229) 242-3060
https://www.aiscaregroup.com
Booth #342
Immunotherapy
Advanced InfusionCare is a licensed resource for home infusion solutions, providing a convenient and effective alternative to inpatient care, offering patients treatment in the comfort of their home. Our highly experienced clinical pharmacists compound complex prescription infusion therapies. Our infusion and clinical services offer 24/7 access to our pharmacists, infusion nurses and support staff.

Advocacy & Awareness for Immune Disorders Association (AAIDA)
P.O. Box 34326
Charlotte, NC 28234
(704) 993-8389
http://www.GoDoAaida.org
Booth #251
Patient/Public Education
AAIDA exists to advocate for patients living with Primary Immunodeficiency (PI), Secondary Immunodeficiency and Autoimmune Diseases, to create awareness and conduct research to find cures for these different groups of diseases.

Aimmune Therapeutics
8000 Marina Boulevard
3rd Floor
Brisbane, CA 94005
(650) 614-5220
https://www.aimmune.com/
Booth #1322
Pharmaceuticals

Ajinomoto Cambrooke
4 Copeland Drive
Ayer, MA 01432
(301) 980-6594
https://www.EssentialCareJr.com
Booth #344
Nutrition
EquaCare Jr. and Essential Care Jr., amino acid-based formula for children with food allergies and digestive disorders. EquaCare Jr. our ‘standard’ formula with similar taste and nutrition as competitors, but lower price. Premium formula, Essential Care Jr. with natural, low FODMAP ingredients, no corn syrup solids & no artificial flavors.

ALK-Abelló, Inc.
135 US Hwy 202/206
Suite 3
Bedminster, NJ 07921
(908) 842-8359
https://www.alk.net/us
Booth #1231
Allergenic Extracts
ALK, Inc. is the world leader in Allergy Immunotherapy and is devoted to helping people with allergies. Our goal is to build an effective future growth platform to engage with allergic patients and connect them with allergy specialists earlier in the disease progression.
Allakos
975 Island Drive
Redwood City, CA 94065
(650) 303-9087
http://www.allakos.com
Booth #1249
Pharmaceuticals
Allakos is a clinical-stage company developing therapeutic antibodies targeting allergic, inflammatory, and proliferative diseases. Our lead program is antolimab (AK002), an antibody that targets siglec-8, an inhibitory receptor found on mast cells and eosinophils.

Allergists For Israel
9933 Mistymorn Lane
Cincinnati, OH 45242
(513) 673-7420
http://www.allergists4israel.org
Booth #258
Other
Allergists For Israel is a nonprofit organization promoting collegiality, research and education by establishing an international network of Allergists and Immunologists to enhance communication and interaction with Israeli professional colleagues.

Allergy & Asthma Network
8229 Boone Boulevard
Suite 260
Vienna, VA 22182
(703) 641-9595
https://www.allergyasthmanetwork.org
Booth #253
Patient/Public Education
Patient-centered nonprofit organization. Provides educational material about allergies, asthma and related conditions for patients and health care providers.

Allergy and Asthma Proceedings
450 Veterans Memorial Parkway
Building #15
East Providence, RI 02914
(401) 331-2510
https://allergyandasthmaproceedings.com
Booth #203
Publications
Allergy & Asthma Proceedings publishes articles with the highest degree of clinical relevance for the practicing allergist/immunologist. Additionally, the Proceedings encourages the submission of manuscripts by Allergy/Immunology FIT. The Proceedings has established a 40-year reputation as a NLM/Medline indexed journal. Print circulation: 5000; Impact factor: 2.124.

Allergy Partners
1978 Hendersonville Road
Suite 130A
Asheville, NC 28803
(828) 277-1300
http://www.allergypartners.com
Booth #1436
Physician Recruitment
Allergy Partners is the nation’s largest allergy, asthma, and immunology practice. Our network spans 20 states and encompasses over 137 total locations of care. As our reputation continues to grow, we are committed to our vision and to bringing only the best physicians and practices into our network.

AllergyEHR a division of Meditab Software
1420 River Park Drive
Suite 120
Sacramento, CA 95815
(510) 201-0130
https://www.allergyehr.com
Booth #338
Computer Hardware/Software
AllergyEHR is the #1 Ranked EHR for Allergy & Immunology Practices. Experience the Award-Winning EHR Software Built to Maximize Workflow Efficiency with Allergy-Specific Integrations. This includes vial management, integrated skin testing with touch screen scoring, shot lab with bar-code documentation, reaction tracking, one-touch immunotherapy billing, & customized billing templates.

AllianceRx Walgreens Prime
2354 Commerce Park Drive
Suite 100
Orlando, FL 32819
(855) 244-2555
https://www.alliancerxwp.com/
Booth #636
Pharmaceuticals
AllianceRx Walgreens Prime is one of the largest specialty pharmacies in the nation, caring for millions of patients living with chronic, complex and rare conditions. Learn more at alliancerxwp.com.

American Board of Allergy and Immunology
1835 Market Street
Suite 1210
Philadelphia, PA 19103
(215) 592-9466
https://ABAI.org
Booth #249
Other
The ABAI was established in 1971 as a Conjoint Board of the ABIM and ABP. The internal medicine sub-specialty existed from 1936-1971 and the pediatric sub-specialty existed from 1944-1971. The ABAI is committed to working closely with its parent boards to maintain the highest educational and clinical standards in the specialty of allergy/immunology.
American Partnership for Eosinophilic Disorders
P.O. Box 29545
Atlanta, GA 30359
(713) 493-7749
http://www.apfed.org
Booth #354
Patient/Public Education
The American Partnership for Eosinophilic Disorders (APFED) is a 501(c)(3) nonprofit organization founded in December 2001 by a group of mothers of young children living with eosinophil-associated diseases. We are a patient advocacy group dedicated to improving the lives of those living with eosinophilic disorders.

Amerimmune LLC
11212 Waples Mill Road
Suite 100
Fairfax, VA 22030
(571) 248-5689
https://amerimmune.com
Booth #451
Diagnostic Testing
Amerimmune’s mission is to develop meaningful partnerships that expand the use of innovative flow cytometry immunological testing to enhance patient care and quality of life. Since 2011, Amerimmune has refined how the medical community understands, approaches and manages immunological disorders by simplifying complex diagnosis.

ARS Pharmaceuticals, Inc.
3525 Del Mar Heights Road
#855
San Diego, CA 92130
(858) 799-1840
https://ars-pharma.com
Booth #218
Pharmaceuticals
ARS-1 is developing a needle-free intranasal epinephrine spray with a unique absorption technology that is pain free, user-friendly, reliable, easily portable and convenient to carry in a pocket or purse anytime, anywhere.

Association of PAs in Allergy, Asthma & Immunology
P.O. Box 90434
San Antonio, TX 78209
(844) 444-0575
http://www.apaaai.org
Booth #252
Professional Association
Our association was formed to promote the growth and development of PAs who have an active interest in the field of allergy, asthma, and immunology.

Asthma and Allergy Foundation of America
1235 South Clark Street
Suite 305
Arlington, VA 22202
(202) 466-7643
https://www.aafa.org/
Booth #351
Patient/Public Education
The Asthma and Allergy Foundation of America (AAFA) is the oldest and largest nonprofit patient organization dedicated to saving lives and reducing the burden of disease for people with asthma and allergies through support, advocacy, education and research. Visit www.aafa.org or www.kidswithfoodallergies.org to learn more.

AstraZeneca
1800 Concord Pike
Wilmington, DE 19803
(770) 861-8177
https://www.astrazeneca.com/
Booth #1131
Pharmaceuticals
At AstraZeneca, science is at the core of everything we do. See how we are following the science in respiratory by visiting booth #1131. For more information about AstraZeneca, please visit www.astrazeneca-us.com or follow us on Twitter @AstraZeneca.

AstraZeneca
1800 Concord Pike
Wilmington, DE 19803
(770) 861-8177
https://www.astrazeneca.com/
Booth #502
Pharmaceuticals
At AstraZeneca, science is at the core of everything we do. See how we are following the science in respiratory by visiting booth #502. For more information about AstraZeneca, please visit www.astrazeneca-us.com or follow us on Twitter @AstraZeneca.

AstraZeneca
1800 Concord Pike
Wilmington, DE 19803
(770) 861-8177
https://www.astrazeneca.com/
Booth #317
Pharmaceuticals
At AstraZeneca, science and patients are at the core of everything we do. See how we are following the science and putting patients first in respiratory by visiting the PRECISION booth #317. For more information about AstraZeneca, please visit www.astrazeneca-us.com or follow us on Twitter @AstraZeneca.
AstraZeneca / AMGEN
1800 Concord Pike
Wilmington, DE 19803
(800) 236-9933
https://www.astrazeneca.com/
Booth #1115
Pharmaceuticals
AstraZeneca is a global, science-led biopharmaceutical company focused on the discovery, development and commercialization of prescription medicines. Together we are collaborating to address areas of significant unmet need.

BioCryst Pharmaceuticals, Inc.
4505 Emperor Boulevard
Suite 200
Durham, NC 27703
(919) 226-5852
https://www.biocryst.com
Booth #207
Pharmaceuticals
BioCryst is a biotech company headquartered in Durham, North Carolina with a Discovery Center of Excellence in Birmingham, Alabama. We discover novel, oral small molecule medicines that treat rare diseases with significant unmet medical need and where an enzyme plays a key role in the biological pathway of the disease.

Blueprint Medicines
45 Sidney Street
Cambridge, MA 02139
(203) 376-1008
https://www.blueprintmedicines.com/
Booth #1149
Pharmaceuticals
Blueprint Medicines is a precision therapy company striving to improve human health. With a focus on genomically defined cancers, rare diseases and cancer immunotherapy, we are developing transformational medicines rooted in our leading expertise in protein kinases, which are proven drivers of disease.

Covis Pharma
Grafenauweg 12
CH-6300 Zug
Switzerland
(732) 616-6387
http://www.covispharma.com
Booth #1253
Pharmaceuticals
Covis Pharma, headquartered in Zug, Switzerland, is a global specialty pharmaceutical company that markets therapeutic solutions for patients with life-threatening conditions and chronic illnesses. Covis offers a portfolio of pharmaceutical products providing patients with affordable and therapeutic equivalent mediations of select brands in respiratory, cardiovascular gastroenterology, CNS, and authorized generics.

CSL Behring
1020 1st Avenue
King of Prussia, PA 19406-0901
(610) 878-4000
https://www.cslbehring.com
Booth #518
Pharmaceuticals
CSL Behring is a leading global biotherapeutics company with a broad range of innovative plasma-derived and recombinant therapies. For over a century, we have been driven by our promise to save lives. Today, our therapies include those to treat primary immune deficiencies, hereditary angioedema coagulation disorders among others.
Our commitment to helping patients and their physicians manage complex drug therapies by delivering individualized care with expertise, compassion and dedication has made us one of the leading specialty pharmacies in the country. To learn more or to enroll patients, call 1-800-238-7828.

DBV Technologies is a clinical-stage biopharmaceutical company focused on changing the field of immunotherapy. We are committed to developing safe and effective therapies for food allergic patients. DBV is currently developing epicutaneous immunotherapy, or EPIT®, which delivers biologically active compounds to the immune system through intact skin.

The European Academy of Allergy and Clinical Immunology (EAACI) is an association of clinicians, researchers and allied health professionals, dedicated to improving the health of people affected by allergic diseases. With more than 11,000 members from 124 countries and over 50 National Allergy Societies, EAACI is the primary source of expertise in Europe for allergy.

eClinicalWorks EHR/PM includes everything providers need for testing and treating allergies. Use configurable worksheets for antigen tests, then write formulations for the vials to be prepared.
<table>
<thead>
<tr>
<th>Exhibits</th>
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| **Food Allergy & Anaphylaxis Connection Team (FAACT)**  
P.O. Box 511  
West Chester, OH 45071  
(815) 276-3015  
https://www.FoodAllergyAwareness.org/  
Booth #350  
Other  
FAACT’s mission is to educate, advocate, and raise awareness for all individuals and families affected by food allergies and life-threatening anaphylaxis. FAACT is here to support you in managing your food allergies – today, tomorrow, and into the future. FAACT is your voice for food allergy awareness. |
| **Grifols USA, LLC.**  
2410 Lillyvale Avenue  
Los Angeles, CA 90032  
(323) 225-2221  
https://www.grifols.com/en/bioscience  
Booth #440  
Immunotherapy  
For more than 75 years, Grifols has worked to improve the health and well-being of people around the world. We are a global healthcare company that produces essential plasma medicines for patients and provides hospitals, pharmacies, and healthcare professionals with the tools, information, and services they need to help them deliver expert medical care. |
| **Food Allergy Research & Education**  
7901 Jones Branch Drive  
Suite 240  
McLean, VA 22102  
(800) 929-4040  
https://www.foodallergy.org  
Booth #259  
Patient/Public Education  
Food Allergy Research & Education (FARE) works on behalf of the 15 million Americans with food allergies, including those at risk for anaphylaxis. FARE’s mission is to improve the quality of life and the health of individuals with food allergies, and to provide them hope through the promise of new treatments. |
| **GSK**  
5 Moore Drive  
Research Triangle Park, NC 27709  
(888) 825-5249  
https://www.gsk.com  
Booth #303  
Pharmaceuticals  
GSK is a science-led global healthcare company with a mission to help people do more, feel better, live longer. We research, manufacture and make available a broad range of medicines, vaccines and consumer healthcare products. Visit our exhibit for information about our products and resources. |
| **Food Equality Initiative, Inc.**  
300 East 39th Street  
Suite 3o  
Kansas City, MO 64111  
(816) 800-0884  
https://foodequalityinitiative.org  
Booth #450  
Other  
Food Equality Initiative (FEI) seeks to end hunger in those with food allergies and celiac disease through access, education, and advocacy. Since its 2014 inception, FEI has served thousands of allergy-safe and gluten-free meals while working to educate and change policy surrounding equity to safe, nutritious foods in vulnerable populations. |
| **GSK Consumer Healthcare**  
184 Liberty Corner Road  
Warren, NJ 07059  
(201) 424-0557  
http://www.gsk.com  
Booth #357  
Other  
GSK is a science-led global healthcare company with a special purpose: to help people do more, feel better, live longer. We research, develop and manufacture innovative pharmaceutical medicines, vaccines and consumer healthcare products. Our goal is to be one of the world’s most innovative, best performing and trusted healthcare companies. |
| **Genentech - Novartis**  
1 DNA Way  
South San Francisco, CA 94080  
(650) 225-1000  
http://www.gene.com  
Booth #1215  
Pharmaceuticals  
For more than 40 years, we’ve been following the science, seeking solutions to unmet medical needs. As a proud member of the Roche Group, we make medicines to treat patients with serious medical conditions. We are headquartered in South San Francisco, California. |
| **Helen of Troy**  
400 Donald Lynch Boulevard  
Suite 300  
Marlborough, MA 01752  
(508) 490-7322  
https://www.honeywellpluggedin.com  
Booth #331  
Other  
Offering affordable, reliable, high quality HEPA filtration products for over 25 years, Honeywell Air Purifiers are frequently recommended by Allergists as part of a patient’s overall treatment plan. |
Hitachi Chemical Diagnostics
630 Clyde Court
Mountain View, CA 94043
(650) 961-5501
http://www.hcdiagnostics.com/
Booth #214
Diagnostic Equipment
Draft 2: HCD only Hitachi Chemical Diagnostics, Inc., Mountain View, California is a global leader of multiplex in vitro allergy diagnostics for over 25 years. The company offers specific IgE allergy tests for commercial reference laboratories and physician office labs in more than 40 countries.

HollisterStier Allergy
3525 North Regal Street
Spokane, WA 99207
(509) 482-4974
https://www.hsallergy.com/
Booth #1514
Allergenic Extracts
HollisterStier Allergy is dedicated to being your partner in allergy management. Our complete line of high quality allergenic products and testing supplies allows allergy professionals to provide patients with the best possible care. Our product line includes extracts for diagnostic testing and immunotherapy, skin testing systems, and other ancillary supplies.

Horizon Therapeutics
150 South Saunders Road
Lake Forest, IL 60045
(224) 383-3000
http://www.horizontherapeutics.com
Booth #202
Pharmaceuticals
Horizon is focused on researching, developing and commercializing medicines that address critical needs for people impacted by rare and rheumatic diseases. Our pipeline is purposeful: we apply scientific expertise and courage to bring clinically meaningful therapies to patients. We believe science and compassion must work together to transform lives.

Hyper IgM Foundation
215 West 101st Street
Suite 7B
New York, NY 10025
(646) 883-4446
https://www.hyperigm.org
Booth #254
Patient/Public Education
The Hyper IgM Foundation is a rare disease patient advocacy organization whose mission is to improve the treatment, quality of life and the long-term outlook for children and adults living with Hyper IgM Syndrome through research, support, education, and advocacy to families and patients.

Immune Deficiency Foundation
110 West Road
Suite 300
Towson, MD 21204
(410) 321-6647
https://primaryimmune.org
Booth #358
Patient/Public Education
The Immune Deficiency Foundation is the national patient organization dedicated to improving the diagnosis, treatment and quality of life of persons with primary immunodeficiency diseases through advocacy, education and research.

Immune Epitope Database and Analysis Resource
9420 Athena Circle
La Jolla, CA 92037
(858) 752-6959
http://www.iedb.org
Booth #255
Patient/Public Education
The IEDB is a freely available resource funded by the NIAID to advance immunology research. The database allows easy searching of all published experimental data characterizing antibody and T cell epitopes studied in humans, non-human primates, and other animal species. Epitopes involved in infectious disease, allergy, autoimmunity, and transplant are included.

Indoor Biotechnologies, Inc.
700 Harris Street
Charlottesville, VA 22903
(434) 984-2304
https://inbio.com
Booth #541
Other
Indoor Biotechnologies specializes in allergens and immunoassay products/services for the food industry, indoor air quality and biopharmaceutical industries, academic and government researchers, and Fortune 500 companies. Our mission is to improve patient care through research, education and developing cutting-edge technologies that serve our customers worldwide.
The International Eosinophil Society, Inc. (IES, Inc.) has been established to bring together scientists around the world who are engaged in research in the field of Eosinophil Biology and Eosinophil Disorders with a view to facilitating the exchange of ideas and information about this fascinating inflammatory cell type and its role in diseases.

International FPIES Association (I-FPIES)
330 River Avenue
Point Pleasant Beach, NJ 08742
(908) 910-4419
https://www.fpies.org
Booth #352
Patient/Public Education
The International FPIES Association (I-FPIES) is a 501(c)(3) patient organization dedicated to improving the diagnosis, treatment and quality of life for those with FPIES through advocacy, education, support, and research. www.fpies.org

Invitae
1400 16th Street
San Francisco, CA 94103
(800) 436-3037
http://invitae.com
Booth #1441
Diagnostic Testing
Invitae’s mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Our goal is to aggregate most of the world’s genetic tests into a single service with higher quality, faster turnaround time and lower prices. Visit www.invitae.com.

KabaFusion
17777 Center Court Drive North
Suite 175
Cerritos, CA 90703
(877) 577-4844
https://www.kabafusion.com
Booth #559
Other
KabaFusion is a pharmacist-owned, patient-focused team of professionals with extensive experience in home infusion and specialty infusion therapy. Our pharmacists, nurses, and reimbursement specialists work as a team to provide your patient with compassionate, efficient and reliable care.

kaléo
111 Virginia Street
Suite 300
Richmond, VA 23219
(804) 545-6360
http://www.kaleo.com
Booth #1431
Pharmaceuticals
kaléo is a pharmaceutical company dedicated to building innovative solutions that can help empower patients with certain serious, life-threatening medical conditions and their caregivers. kaléo products combine established drugs with innovative delivery platforms, with the goal of achieving safety, efficacy and cost effectiveness. kaléo is privately-held, and headquartered in Richmond, Virginia. www.kaleopharma.com.

Latitude Food Allergy Care
570 Price Avenue
Suite 400
Redwood City, CA 94063
(650) 466-6224
https://latitudefoodallergycare.com
Booth #448
Health/Body Care
A national network of clinics focused 100% on food allergy care — we offer personalized and comprehensive care for food allergic patients and their families including diagnosis, treatment, and long-term support.

Leadiant Biosciences, Inc.
9841 Washingtonian Boulevard
Suite 500
Gaithersburg, MD 20878
(800) 447-0169
http://www.leadiant.com
Booth #658
Pharmaceuticals
Leadiant Biosciences, Inc. is a rare corporation dedicated to creating novel medicines for the unmet needs of patients with rare diseases. Truly unique in its field, Leadiant Biosciences places its considerable scientific resources behind the discovery of compounds that benefit the few. Simply because it’s the right thing to do.

Lil Mixins, LLC
P.O. Box 29307
Philadelphia, PA 19125
(484) 816-6467
https://www.lilmixins.com
Booth #211
Nutrition
Lil Mixins Infant Food Powders enable parents to regularly add baked eggs, peanuts, and tree nuts to their child’s diet as the simplest and most cost-effective way to reduce the risk of food allergy.
Lincoln Diagnostics, Inc.
240 East Hickory Pt. Road
Decatur, IL 62526
(800) 537-1336
http://www.lincolndiagnostics.com
Booth #324
Diagnostic Testing
State-of-the-art, safety-engineered skin testing devices that meet all current OSHA requirements; i.e., Multi-Test® PC, UniTest® PC, Multi-Test® II, Duotip-Test® II, and Duotip-Test®. Please visit our exhibit to learn about the economic value of using Lincoln’s devices and why they are the most widely used and most extensively published on devices available.

Mead Johnson Nutrition
2400 West Lloyd Expressway
Evansville, IN 47721
(812) 429-5514
http://enfamil.com/products
Booth #1438
Nutrition
Mead Johnson’s mission is to nourish the world’s children for the best start in life. As a global leader in pediatric nutrition, we develop, manufacture and distribute over 70 products in 50 countries worldwide. To explore our Enfamil portfolio of tailored nutrition, visit www.enfamil.com/products.

Med Care Pharmaceuticals
8383 Wilshire Boulevard
Beverly Hills, CA 90211
(619) 292-1479
http://medcarepharmaceuticals.com
Booth #341
Pharmaceuticals
Med Care Pharmaceuticals is a research-based biopharmaceutical company that discovers and develops innovative, affordable, and safe (OTC) over-the-counter solutions, and dermatology products striving to transform and simplify care for people around the world.

Medi Lazer
1110 Brickell Avenue
Suite 430
Miami, FL 33131
(305) 847-9044
http://www.medilazer.net
Booth #1449
Health/Body Care
Our mission statement is simply “Quality Not Compromise” is ingrained in every aspect of our business, from an unwavering belief in the limitless potential applications of low-level laser, down to the care and quality of the smallest component of our devices.

Medical College of Wisconsin
8701 Watertown Plank Road
MFRC 5072
Wauwatosa, WI 53226
(414) 456-4165
http://mcw.edu/cirl
Booth #335
Diagnostic Testing
The Clinical Immunodiagnostic and Research Laboratory (CIRL) provides a comprehensive panel of diagnostic services to aid in the screening and diagnosis of primary immunodeficiencies using flow cytometric-based assays. The Allergy Immunology Diagnostic Lab (AIDLC) utilizes serologic assays for the diagnosis of hypersensitivity pneumonitis, APBA, latex allergy, and responses to the polysaccharide Salmonella typhi vaccine.

Mediknox
3111 South Valley View Boulevard
A-215
Las Vegas, NV 89102
(702) 330-0567
https://mediknox.com/
Booth #225
Equipment/Supplies
Mediknox works with the most advanced medical devices and simplifies professional medical technology for home use. This technology is clinically proven and FDA cleared medical devices, and currently carried, used and sold by medical professionals, including those within this field.

Meditrix
9921 Whalers Landing Court
Las Vegas, NV 89117
(702) 272-7443
http://meditrixus.com
Booth #452
Equipment/Supplies
Meditrix mission is to deliver high quality medical solutions from otc solutions to medical devices and r&d solutions. We focus on using the state of the art technology with new developments from everyday experience.
Methapharm
81 Sinclair Boulevard
Brantford, ON N3S 7X6
Canada
(519) 751-3602
https://provoholine.com/
Booth #428

Diagnostic Testing
Methapharm is a specialty pharmaceutical company with a focus on the acquisition, licensing, partnering, and promotion of specialty pharmaceutical products in North America. We market our own proprietary products, Provoholine, and partner with global companies to deliver a comprehensive line of prescription drug products in the USA and Canada.

MGC Diagnostics
350 Oak Grove Parkway
St. Paul, MN 55127
(651) 484-4874
https://www.mgcdiagnostics.com/
Booth #1540

Diagnostic Equipment
MGC Diagnostics® is a global medical technology company dedicated to cardiorespiratory health solutions. Our Exhaled Nitric Oxide, Forced Oscillation Technique and Spirometry devices are perfectly suited for clinical and research work in allergy and asthma clinics. Our systems provide solutions for early detection and medication control programs for asthma management.

Micro Direct, Inc.
803 Webster Street
Lewiston, ME 04240
(800) 588-3381
https://www.mdspirom.com
Booth #438

Spirometry
Micro Direct offers Total Spirometry Solutions with five models priced from $695 to $2,495 each with your choice of inexpensive cardboard mouthpieces, one-way mouthpieces or full protection pulmonary filters. Micro Direct also offers screening spirometers for home and office use and an inexpensive peak flow meter.

Mission: Allergy, Inc.
28 Hawleyville Road
P.O. Box 45
Hawleyville, CT 06440
(203) 364-1570 x 2000
https://www.missionallergy.com
Booth #430

Environmental Products
Leading allergists recommend Mission: Allergy for its scientific accuracy and its highest quality microfiber pillow and mattress encasings and other products for allergen avoidance. Please stop by our booth to request your free supply of our informative Allergy Self-Help Guide for patients, and to view live dust mites in high-definition.

ModuleMD
8359 Office Park Drive
Grand Blanc, MI 48439
(877) 347-7978
https://modulemd.com/
Booth #555

Computer Hardware/Software
ModuleMD Phone: 877-EHR-SYSTEM (877-347-7978) Email: info@modulemd.com ModuleMD enhances the clinical, operational and financial performance of Allergy Practices. The ModuleMD WISE™ suite includes a Certified EHR, Skin Testing, Immunotherapy, Practice Management, Revenue Management, ePrescribe, Telemedicine, and Patient Engagement software. In addition to technology, ModuleMD offers comprehensive billing and RCM services. Providing solutions… not just software. Contact us: info@modulemd.com.

Molekule
1301 Folsom Street
San Francisco, CA 94103
(407) 490-2758
http://www.molekule.com
Booth #557

Environmental Products
Molekule’s proprietary technology, Photo Electrochemical Oxidation (PECO), works at the molecular level to destroy pollutants. Take a deep breath and see what makes Molekule air purifiers the first of their kind.

Morgan Scientific, Inc.
151 Essex Street
8th Floor
Haverhill, MA 01832
(978) 521-4440
http://www.morgansci.com
Booth #339

Diagnostic Equipment
Morgan Scientific provides the finest spirometry and pulmonary function equipment together with visionary ComPAS2 Software, medical record integration, physician review, impeccable customer support, and continuing innovation. Stop by and see how we can improve workflow and meet our dragon!
Exhibits

MotherToBaby Pregnancy Studies
7910 Frost Street
Suite 370
San Diego, CA 92123
(858) 246-1707
https://motherbabypregnancy.org/
Booth #256

Physician Education
MotherToBaby is the nation’s leading authority and most trusted source of evidence-based information on the safety of medications and other exposures during pregnancy and while breastfeeding. MotherToBaby Pregnancy Studies is evaluating the effects of Asthma and Atopic Dermatitis along with the medications used to treat these diseases during pregnancy.

National Allergy/ACP
3575 Koger Boulevard
Suite 240
Duluth, GA 30096
(770) 495-3353
http://www.nationalallergy.com
Booth #313

Equipment/Supplies
One of the largest supplier and manufacturers of over 1,300 allergy and asthma-friendly products for personal use. Our goal is to help you make your home a place to breathe easy.

National Heart, Lung, and Blood Institute
31 Center Drive
Building 31
Bethesda, MD 20892
(301) 496-5449
https://www.nhlbi.nih.gov
Booth #250

Clinical Research Organizations
The National Heart, Lung, and Blood Institute (NHLBI) conducts and supports research that expands our understanding of lung biology and how lung diseases start and progress, as well as studies and clinical trials that lead to new and improved ways to diagnose, treat, and prevent lung diseases.

NeilMed Pharmaceuticals
601 Aviation Boulevard
Santa Rosa, CA 95403
(707) 525-3784
https://www.neilmed.com
Booth #1425

Pharmaceuticals
The mission of the company is to create and maintain safe, affordable and effective products to sustain long-term growth and create drug free and effective nasal/sinus, ear and wound care devices for millions of consumers worldwide. Please visit the website www.neilmed.com for more details.

Novartis Pharmaceuticals
One Health Plaza
East Hanover, NJ 07936
(862) 778-2100
https://www.novartis.com
Booth #435

Pharmaceuticals
Novartis is reimagining medicine to improve and extend people’s lives. We use innovative science and digital technologies to create transformative treatments. Novartis products reach more than 750 million people globally and we are finding innovative ways to expand access to our medicines. About 105,000 people of more than 140 nationalities work at Novartis. www.novartis.com.

Novartis Pharmaceuticals Corporation
One Health Plaza
East Hanover, NJ 07936
(609) 945-8370
https://www.novartis.com
Booth #529

Pharmaceuticals
Novartis is reimagining medicine to improve and extend people’s lives. We use innovative science and digital technologies to create transformative treatments. Novartis products reach more than 750 million people globally and we are finding innovative ways to expand access to our medicines. About 105,000 people of more than 140 nationalities work at Novartis. www.novartis.com.

Nutricia North America
77 Upper Rock Circle
Suite 303
Rockville, MD 20850
(301) 503-1457
http://www.neocate.com
Booth #327

Nutrition
For 30 years and counting, Neocate has been delivering evidence-based, medically endorsed, hypoallergenic nutritionally complete to meet the many needs of children as the number one worldwide amino acid-based nutrition brand.

Officite
3010 Highland Parkway
Suite 200
Downers Grove, IL 60515
(888) 817-4010
http://www.Officite.com
Booth #543

Office Management
Officite works with healthcare professionals all across the country, helping physicians grow their practices and generate more new patient referrals through effective, efficient online marketing. Their websites are attractive, powerful, easy to launch, and backed by the unlimited support of a dedicated Web Presence Advisor.
Optinose
1020 Stony Hill Road
Suite 300
Yardley, PA 19067
(267) 364-3505
https://www.xhancehcp.com
Booth #1139
Pharmaceuticals
Optinose is a specialty pharmaceutical company focused on creating and bringing to market innovative products for patients with diseases treated by ear, nose, and throat (ENT) and allergy specialists.

Optum Infusion Pharmacy, formerly BriovaRx Infusion Services
15529 College Boulevard
Lenexa, KS 66219
(913) 747-3700
http://www.optum.com
Booth #1155
Immunotherapy
Optum Infusion Pharmacy, formerly BriovaRx Infusion Services, is a home infusion care provider with a national network of pharmacies. We specialize in Immune globulin (Ig), Parenteral Nutrition (PN), Anti-infectives, Hydration, Biologics and other specialty infusions. Our comprehensive services include specially trained on-staff nurses and pharmacists, around-the-clock clinical support, reimbursement specialists and on-going patient education.

Panatrex, Inc.
1648 Sierra Madre Circle
Placentia, CA 92870-6626
(714) 630-5582
http://panatrex.com
Booth #1337
Diagnostic Testing
Quanti-Test System: Quick-Test Applicators, Quanti- Wells and Quanti- Trayboxes

Pfizer
235 East 42nd Street
New York, NY 10017
(212) 733-2323
http://www.pfizer.com
Booth #1251
Pharmaceuticals
Pfizer Inc.: Breakthroughs that change patients’ lives. At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of health care products.

Pfizer
235 East 42nd Street
New York, NY 10017
(212) 733-2323
http://www.pfizer.com
Booth #1350
Pharmaceuticals
Pfizer Inc.: Breakthroughs that change patients’ lives. At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of health care products.

Pharming Healthcare Inc
685 Route 202/206
Suite 200
Bridgewater, NJ 08807
(908) 524-0294
http://www.pharming.com
Booth #1123
Pharmaceuticals
Pharming Healthcare, Inc. is dedicated to providing life-changing solutions to patients. Pharming is currently involved in the development of drugs for rare diseases, including hereditary angioedema, through a validated technology platform capable of producing industrial quantities of pure recombinant human proteins. Pharming’s lead product is approved in the United States, Europe, South America, and South Korea.
Propeller Health
1 South Pinckney Street
6th Floor
Madison, WI 53703
(415) 786-4665
https://www.propellerhealth.com/
Booth #550
Other
Propeller Health is a digital health company that’s dedicated to helping people with asthma or COPD breathe easier. Propeller sensors attach to inhalers and automatically track when users take their medication. The sensors send information to an app on the user’s smartphone where analytics and machine learning deliver personalized insight and support.

PulmOne Advanced Medical Devices
270 Madison Avenue
9th Floor
New York, NY 10016
(844) 785-6663
https://www.pulm-one.com/
Booth #1339
Diagnostic Equipment
Learn more about the MiniBox+: Complete Pulmonary Function Testing (PFT) in a desktop device: Lung Volumes, Spirometry and DLCO testing in just 15-20 minutes. Clinically proven and easy to operate. Fully reimbursable with great ROI. Used by physicians in 30+ states. Live demos during exhibition hours.

Pulmonology Advisor
275 7th Avenue
10th Floor
New York, NY 10001
(646) 576-4909
https://www.pulmonologyadvisor.com/
Booth #330
Publications
PulmonologyAdvisor.com offers healthcare professionals who care for patients with respiratory and critical care conditions a comprehensive knowledge base of practical information and resources focused on pulmonary and critical care medicine to assist in making the right decisions for their patients.

Purina®
One Checkerboard Square
St. Louis, MO 63164-0001
United States
(800) 7PURINA
https://www.purina.com/pro-plan
Booth #528
Other
Purina® Pro Plan® announces breakthrough in management of cat allergens. LiveClear™ is the first cat food shown to neutralize Fel d 1, the most common cat allergen. Visit our booth to learn more about Purina and this innovative new cat food.

Purina Institute
One Checkerboard Square
St. Louis, MO 63164-0001
United States
(800) 7PURINA
https://www.purinainstitute.com/
Booth #530
Other
The Purina Institute is the scientific voice of Purina, one of the world’s leading pet food companies, representing an extensive network of more than 500 scientists.
For over a decade Purina scientists have been investigating a novel approach that can transform management of cat allergies, leveraging Purina’s expertise in nutrition.

Rabbit Air
125 North Raymond Avenue
Suite 308
Pasadena, CA 91103
(626) 396-9197
https://www.rabbitair.com
Booth #416
Environmental Products
Rabbit Air is an innovative, Los-Angeles based company that develops stylish air purifiers to target airborne pollutants and improve the indoor environment. Utilizing a bio-engineered HEPA filter, and a Charcoal-Based Activated Carbon filter, patients looking for environmental relief can choose between the award winning BioGS 2.0 and the asthma & allergy friendly® Certified MinusA2 air purifier.
Red Maple Trials Inc.
2935 Conroy Road
Unit 110
Ottawa, ON K1G 6C6
Canada
(613) 368-4320
http://www.redmapletrials.com/
Booth #1523

Clinical Research Organizations
Red Maple Trials provides specialty services in allergy, asthma and immunology clinical research. Our unique facilities include two allergen exposure chambers that provide controlled environments in which to study allergic diseases, and our experienced team provides end-to-end CRO services in order to fulfill the challenging demands of our biopharmaceutical partners.

Regeneron and Sanofi Genzyme
777 Old Saw Mill River Road
Tarrytown, NY 10591
(914) 847-7600
Booth #413

Pharmaceuticals
Regeneron Pharmaceuticals is a leading biotechnology company that invents life-transforming medicines for people with serious diseases. Sanofi is dedicated to supporting people through their health challenges. We are a global biopharmaceutical company focused on human health. Since 2007, Sanofi & Regeneron have collaborated to develop & commercialize fully human monoclonal antibodies utilizing proprietary technologies.

Rosch Visionary Systems, Inc.
1601 11th Avenue
Suite 102
 Altoona, PA 16601
(800) 307-3320
http://www.roschvisionary.com
Booth #1254

Computer Hardware/Software
Rosch Immunotherapy, Rosch Skin Testing and Visionary Allergy Tracker can help your practice become safer and more efficient. Our systems are lined with multiple safety features and comply with all compounding laws as well as USP Chapter 797. Rosch offers interfaces with all the leading EMRs plus many more.

Sandoz
100 College Road West
Princeton, NJ 08540
(609) 945-8370
https://www.us.sandoz.com
Booth #429

Pharmaceuticals
Sandoz is a global leader in generic pharmaceuticals and biosimilars. Our purpose is to discover new ways to improve and extend people’s lives.

Sanofi Consumer Healthcare (Formerly Chattem, Inc)
55 Corporate Drive
Bridgewater, NJ 08807
(800) 981-2491
http://www.sanofi.us
Booth #642

Pharmaceuticals
Sanofi is dedicated to supporting people through their health challenges. We are a global biopharmaceutical company focused on human health. We prevent illness with vaccines, provide innovative treatments to fight pain and ease suffering. We stand by the few who suffer from rare diseases and the millions with long term chronic conditions. Sanofi, Empowering Life.

SCIREQ Inc.
6600 St. Urbain
Suite 300
Montreal, QC H2S 3G8
Canada
(514) 286-1429
https://www.scireq.com
Booth #1348

Equipment/Supplies
SCIREQ and emka TECHNOLOGIES offer integrated solutions for physiology, pharmacology, and toxicology research. We provide a complete range of innovative instruments and services for in vivo and in vitro research. Our systems combine accuracy and reproducibility to provide unparalleled insight into preclinical research, as cited in over 2,000 scientific publications.
SelectWisely, LLC
P.O. Box 289
Sparta, NJ 07871
(973) 214-2021
http://www.selectwisely.com
Booth #1529
Health/Body Care
SelectWisely provides food allergy, asthma and medical translation cards to people traveling in foreign countries where they don’t speak the language. We have been in business since 2004 and have helped tens of thousands of people travel safely all over the world. For more information visit: www.selectwisely.com.

SmartPractice
3400 East McDowell Road
Phoenix, AZ 85008
(800) 878-3837
http://smartpractice.com/derm
Booth #213
Other
Our Dermatology | Allergy division exists because patients deserve a diagnosis™. For 15 years, our team has developed innovative products to help diagnose patients with allergic contact dermatitis. SmartPractice is the manufacturer of TRUE TEST®, Finn Chambers®, allergEAZE®, TruVol™, patchPrep™, patchTransport™, patchProtect™ and Reveal & Conceal™.

Specialty Pharmacy Nursing Network, Inc.
1626 Barber Road
Suite B
Sarasota, FL 34240
(877) 330-7766
http://www.spnninc.com
Booth #212
Immunotherapy
Specialty Pharmacy Nursing Network (SPNN) is a nationwide nursing network that focuses on the therapy management of patients with rare, chronic disorders. Our professional staff consists of CRNI®, OCN®, IgCN®, PICC and IV certified nurses who administer specialty pharmacy therapies to patients in the comfort of their home, physician offices and ambulatory infusion centers (AIC).

Stallergenes Greer
639 Nuway Circle Northeast
Lenoir, NC 28645
(828) 754-5327
http://www.stallergenesgreer.com/usa/stallergenes-greer-usa
Booth #205
Allergenic Extracts
Headquartered in Boston with locations in Lenoir, North Carolina and San Diego, California, Stallergenes Greer’s business in the United States is part of a leading global biopharmaceutical company specializing in the development and commercialization of allergy immunotherapy (AIT) products and services for use in the diagnosis and treatment of allergies. Additional information is available at http://www.stallergenesgreer.com/usa/stallergenes-greer-usa.

Stallergenes Greer
639 Nuway Circle Northeast
Lenoir, NC 28645
(828) 754-5327
http://www.stallergenesgreer.com/usa/stallergenes-greer-usa
Booth #206
Allergenic Extracts
Headquartered in Boston with locations in Lenoir, North Carolina and San Diego, California, Stallergenes Greer’s business in the United States is part of a leading global biopharmaceutical company specializing in the development and commercialization of allergy immunotherapy (AIT) products and services for use in the diagnosis and treatment of allergies.

Takeda
300 Shire Way
Lexington, MA 02421
(617) 349-0200
https://www.takeda.com
Booth #1402
Pharmaceuticals
Takeda is a global, values-based, R&D-driven biopharmaceutical leader headquartered in Japan, committed to bringing Better Health and a Brighter Future to patients by translating science into highly-innovative medicines. www.takeda.com.

Taylor & Francis
530 Walnut Street
Suite 850
Philadelphia, PA 19106
(215) 625-8900
http://www.taylorandfrancis.com
Booth #209
Publications
Taylor & Francis partners with world-class authors, from leading scientists and researchers, to scholars and professionals operating at the top of their fields. Together, we publish in all areas of the Humanities, Social Sciences, Behavioural Sciences, Science, Technology and Medicine sectors.
Teva Pharmaceuticals
400 Interpace Parkway
Parsippany, NJ 07054
(816) 718-1624
http://www.tevausa.com
Booth #513
Pharmaceuticals
Teva Pharmaceuticals is a global leader in generic medicines and biopharmaceuticals. Building on more than a century-old legacy, Teva delivers high-quality products to patients in nearly every therapeutic area, has an established presence in generics, specialty, OTC and API, a fully integrated R&D function, strong operational base and global infrastructure and scale.

The Emmes Company, LLC
401 North Washington Street
Suite 700
Rockville, MD 20850
(301) 251-1161
https://www.emmes.com
Booth #235
Clinical Research Organizations
For over 40 years, Emmes has provided full service support for clinical trials. Come learn about our experience with clinical trials in food allergy research and how we can support your next trial.

The Mastocytosis Society Inc.
P. O. Box 416
Sterling, MA 01564
(617) 285-6156
https://tmsforacure.org
Booth #257
Patient/Public Education
The Mastocytosis Society is a nonprofit organization dedicated to supporting patients affected by Mastocytosis and Mast Cell Activation Diseases as well as their families, caregivers and healthcare professionals through research, education and advocacy.

Thermo Fisher Scientific
Phadia AB
Rapsgatan 7 P. O. Box 6460
Uppsala, SE-751 37
Sweden
+46 721421262
Booth #1331
Diagnostic Testing
Thermo Scientific ImmunoDiagnostics develops, manufactures, and markets complete blood test systems to support the clinical diagnosis and monitoring of allergy, asthma and autoimmune diseases. With 1,800 employees worldwide, we are the global leader in in vitro allergy testing and also the European leader in autoimmunity diagnostics.

Ursatec GmbH
Marpsgater Weg 4
Tholey, 66636
Germany
+49 6853 961990
http://ursatec.com
Booth #640
Pharmaceuticals
URSATEC stands for innovative developments in preservative-free pharmaceutical, medical device and cosmetic products such as oral and nasal sprays. Safe protection against contamination by microorganisms, even after the opening of a package, is guaranteed by the dual microbiological protection of the patented dosing systems 3K®, COMFORT® and SoftBreezer®.

US Hereditary Angioedema Association
10560 Main Street
Suite PS40
Fairfax City, VA 22030
(866) 798-5598
https://www.haa.org
Booth #356
Patient/Public Education
The US HAEA is a nonprofit patient advocacy organization serving Hereditary Angioedema patients. Our Association was founded and staffed by HAE patients and caregivers. We provide the HAE community with a personalized support network and a wide range of services to help them lead a normal life.

Vitalograph, Inc.
13310 West 99th Street
Lenexa, KS 66215
(913) 730-3216
https://vitalograph.com
Booth #412
Equipment/Supplies
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Nadeau, Kari C., MD PhD FAAAAI, Los Altos Hills, CA, USA - 0101, 4601
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Oelsner, Elizabeth C., MD MPH, New York, NY, USA - 3521
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Orange, Jordan Scott, MD PhD FAAAAI, New York, NY, USA - 3703
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Pacheco, Karin A., MD MSPH FAAAAI, Denver, CO, USA - 2402, 3551
Palmer, James, MD, Philadelphia, PA, USA - 2004
Panettieri, Reynold A. Jr., MD, Bensalem, PA, USA - 1204
Paris, Kenneth, MD MPH FAAAAI, New Orleans, LA, USA - 2009
Park, Hae-Sim, MD PhD FAAAAI, Suwon, Korea - 2307
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Park, Miguel A., MD, Rochester, MN, USA - 2008
Park, Min Jee, Seoul, Korea - 4601
Parris, Arielle, Asheville, NC, USA - 2402
Parrish, Christopher P., MD FAAAAI, Dallas, TX, USA - 2401
Passalacqua, Giovanni, MD, Genoa, Italy - 2301
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Paul, Albert, MD, Philadelphia, PA, USA - 4603
Pavord, Ian D., MD, Oxford, United Kingdom - 4602
Pawelczyk, Malgorzata, Lodz, Poland - 3608
Peden, David B., MD FAAAAI, Chapel Hill, NC, USA - 4309
Perez, Elena E., MD PhD FAAAAI, Jupiter, FL, USA - 2009, 4308
Permaul, Perdita, MD FAAAAI, Newton, MA, USA - 1012
Peters, Christopher C., MD, New York, NY, USA - 4718
Peterson, Catherine E., MD, Ypsilanti, MI, USA - 2814
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Saff, Rebecca, MD PhD FAAAAI, Boston, MA, USA - 0102, 3303
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Schneider, Lynda C., MD FAAAAI, Boston, MA, USA - 2001
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Schuval, Susan, MD FAAAAI, Stony Brook, NY, USA - 1803
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Venter, Carina, PhD RD, Englewood, CO, USA - 1521, 2022, 2808
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APPROVED FOR PATIENTS AGED 12 YEARS AND OLDER WITH UNCONTROLLED MODERATE-TO-SEVERE ATOPIC DERMATITIS

INDICATION
DUPIXENT is indicated for the treatment of patients aged 12 years and older with moderate-to-severe atopic dermatitis whose disease is not adequately controlled with topical prescription therapies or when those therapies are not advisable. DUPIXENT can be used with or without topical corticosteroids.

IMPORTANT SAFETY INFORMATION

CONTRAINDICATION: DUPIXENT is contraindicated in patients with known hypersensitivity to dupilumab or any of its excipients.

WARNINGS AND PRECAUTIONS

Hypersensitivity: Hypersensitivity reactions, including generalized urticaria, rash, erythema nodosum, anaphylaxis and serum sickness or serum sickness-like reactions, were reported in <1% of subjects who received DUPIXENT in clinical trials. If a clinically significant hypersensitivity reaction occurs, institute appropriate therapy and discontinue DUPIXENT.

 Conjunctivitis and Keratitis: Conjunctivitis and keratitis occurred more frequently in atopic dermatitis subjects who received DUPIXENT. Conjunctivitis was the most frequently reported eye disorder in these patients. Advise patients to report new onset or worsening eye symptoms to their healthcare provider.

Reduction of Corticosteroid Dosage: Do not discontinue systemic, topical or inhaled corticosteroids abruptly upon initiation with DUPIXENT. Reductions in corticosteroid dose, if appropriate, should be gradual and performed under the direct supervision of a physician. Reduction in corticosteroid dose may be associated with systemic withdrawal symptoms and/or unmask conditions previously suppressed by systemic corticosteroid therapy.

Atopic Dermatitis Patients with Comorbid Asthma: Advise patients not to adjust or stop their asthma treatments without consultation with their physicians.

Please see additional Important Safety Information and brief summary of full Prescribing Information on the following pages.
Parasitic (Helminth) Infections:
It is unknown if DUPIXENT will influence the immune response against helminth infections. Treat patients with pre-existing helminth infections before initiating therapy with DUPIXENT. If patients become infected while receiving treatment with DUPIXENT and do not respond to anti-helminth treatment, discontinue treatment with DUPIXENT until the infection resolves.

IMPORTANT SAFETY INFORMATION
WARNINGS AND PRECAUTIONS (cont’d)
Parasitic (Helminth) Infections: It is unknown if DUPIXENT will influence the immune response against helminth infections. Treat patients with pre-existing helminth infections before initiating therapy with DUPIXENT. If patients become infected while receiving treatment with DUPIXENT and do not respond to anti-helminth treatment, discontinue treatment with DUPIXENT until the infection resolves.
IMPORTANT SAFETY INFORMATION

ADVERSE REACTIONS: The most common adverse reactions (incidence ≥1% at Week 16) in adult patients with atopic dermatitis are injection site reactions, conjunctivitis, blepharitis, oral herpes, keratitis, eye pruritus, other herpes simplex virus infection, and dry eye. The safety profile in adolescents through Week 16 was similar to that of adults with atopic dermatitis. In an open-label extension study, the long-term safety profile observed in adolescents through Week 52 was consistent with that seen in adults with atopic dermatitis.

DRUG INTERACTIONS: Avoid use of live vaccines in patients treated with DUPIXENT.

USE IN SPECIFIC POPULATIONS

• Pregnancy: Available data from case reports and case series with DUPIXENT use in pregnant women have not identified a drug-associated risk of major birth defects, miscarriage or adverse maternal or fetal outcomes. Human IgG antibodies are known to cross the placental barrier; therefore, DUPIXENT may be transmitted from the mother to the developing fetus.

• Lactation: There are no data on the presence of DUPIXENT in human milk, the effects on the breastfed infant, or the effects on milk production. Maternal IgG is known to be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for DUPIXENT and any potential adverse effects on the breastfed child from DUPIXENT or from the underlying maternal condition.

Clear or almost-clear skin

No requirement for initial lab testing or ongoing lab monitoring, according to the full Prescribing Information

Itch reduction

A biologic—not a steroid treatment or an immunosuppressant

Visit DupixentHCP.com/AtopicDermatitis to learn more
5.7 Parasitic (Helminth) Infections
Patients with known helminth infections were excluded from participation in clinical studies. It is unknown if DUPIXENT will influence the immune response against helminth infections. Treat patients with pre-existing helminth infections before initiating therapy with DUPIXENT. If patients become infected while receiving treatment with DUPIXENT and do not respond to antihelminth treatment, discontinue treatment with DUPIXENT until the infection resolves.

6. ADVERSE REACTIONS
The following adverse reactions are discussed in greater detail elsewhere in the labeling:
- Hypersensitivity [see Warnings and Precautions (5.1)]
- Conjunctivitis and Keratitis [see Warnings and Precautions (5.2)]

6.1 Clinical Trials Experience
Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

6.2 Post-Marketing Experience
Adverse events that have been identified since the approval of DUPIXENT include:
- Eczema herpeticum
- Okazaki fever
- Miscellaneous: Other: aseptic meningitis, streptococcal exanthem

7. Laboratory Test Changes
In the 1-year placebo controlled trial in subjects with atopic dermatitis (Trial 7), the safety profile of DUPIXENT in subjects with moderate-to-severe atopic dermatitis. The safety profile of DUPIXENT through Week 52 was generally consistent with the safety profile observed at Week 24.

8. 100 mg and 300 mg every two weeks. DUPIXENT can be used with or without topical corticosteroids.

9. 12.3) in the full prescribing information.

10. 8.4) and 4) through Week 16, the proportion of subjects who discontinued treatment because of adverse events was 1.9% in both the DUPIXENT 300 mg Q2W and placebo groups.

Table 1: Concomitant Medications

<table>
<thead>
<tr>
<th>Concomitant Medications</th>
<th>DUPIXENT 300 mg Q2W</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allergy, asthma, COPD</td>
<td>50% (50)</td>
<td>50% (50)</td>
</tr>
<tr>
<td>Antidepressant</td>
<td>20% (20)</td>
<td>20% (20)</td>
</tr>
<tr>
<td>Antihistamine</td>
<td>30% (30)</td>
<td>30% (30)</td>
</tr>
<tr>
<td>Calcineurin inhibitors</td>
<td>10% (10)</td>
<td>10% (10)</td>
</tr>
<tr>
<td>Corticosteroids</td>
<td>90% (90)</td>
<td>90% (90)</td>
</tr>
<tr>
<td>Other</td>
<td>5% (5)</td>
<td>5% (5)</td>
</tr>
</tbody>
</table>

Table 1: Adverse Reactions in & of the DUPIXENT Monotherapy Group or the DUPIXENT + TCS Group in the Atopic Dermatitis Trials through Week 16

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>DUPIXENT Monotherapy*</th>
<th>Placebo N=110 n (%)</th>
<th>Placebo N=110 n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection site reactions</td>
<td>10 (1)</td>
<td>20 (2)</td>
<td>10 (1)</td>
</tr>
<tr>
<td>Conjunctivitis</td>
<td>10 (1)</td>
<td>10 (1)</td>
<td>10 (1)</td>
</tr>
<tr>
<td>Blepharitis</td>
<td>1 (1)</td>
<td>2 (2)</td>
<td>1 (1)</td>
</tr>
<tr>
<td>Oral herpes</td>
<td>2 (2)</td>
<td>2 (2)</td>
<td>2 (2)</td>
</tr>
<tr>
<td>Keratitis</td>
<td>1 (1)</td>
<td>1 (1)</td>
<td>1 (1)</td>
</tr>
<tr>
<td>Dry eye</td>
<td>1 (1)</td>
<td>1 (1)</td>
<td>1 (1)</td>
</tr>
</tbody>
</table>

*Pooled analysis of Trials 1, 2, and 4.

Analysis of Trial 3 where subjects were on background TCS therapy.

In the 1-year placebo controlled trial in subjects with atopic dermatitis (Trial 7), the safety profile of DUPIXENT in subjects with moderate-to-severe atopic dermatitis. The safety profile of DUPIXENT through Week 52 was generally consistent with the safety profile observed at Week 24.

In the 1-year placebo controlled trial in subjects with asthma (AS Trial 2), there was no effect on asthma control as measured by the investigator global assessment of asthma control. Treatment with DUPIXENT was not associated with an increased risk of asthma exacerbations.

In the 1-year placebo controlled trial in subjects with atopic dermatitis (Trial 7), the safety profile of DUPIXENT in subjects with moderate-to-severe atopic dermatitis. The safety profile of DUPIXENT through Week 52 was generally consistent with the safety profile observed at Week 24.

Table 1: Adverse Reactions in & of the DUPIXENT Monotherapy Group or the DUPIXENT + TCS Group in the Atopic Dermatitis Trials through Week 16

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<th>Adverse Reaction</th>
<th>DUPIXENT Monotherapy*</th>
<th>Placebo</th>
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<tbody>
<tr>
<td>Injection site reactions</td>
<td>10 (1)</td>
<td>20 (2)</td>
</tr>
<tr>
<td>Conjunctivitis</td>
<td>10 (1)</td>
<td>10 (1)</td>
</tr>
<tr>
<td>Blepharitis</td>
<td>1 (1)</td>
<td>2 (2)</td>
</tr>
<tr>
<td>Oral herpes</td>
<td>2 (2)</td>
<td>2 (2)</td>
</tr>
<tr>
<td>Keratitis</td>
<td>1 (1)</td>
<td>1 (1)</td>
</tr>
<tr>
<td>Dry eye</td>
<td>1 (1)</td>
<td>1 (1)</td>
</tr>
</tbody>
</table>

*Pooled analysis of Trials 1, 2, and 4.

Analysis of Trial 3 where subjects were on background TCS therapy.

In the 1-year placebo controlled trial in subjects with atopic dermatitis (Trial 7), the safety profile of DUPIXENT in subjects with moderate-to-severe atopic dermatitis. The safety profile of DUPIXENT through Week 52 was generally consistent with the safety profile observed at Week 24.

In the 1-year placebo controlled trial in subjects with asthma (AS Trial 2), there was no effect on asthma control as measured by the investigator global assessment of asthma control. Treatment with DUPIXENT was not associated with an increased risk of asthma exacerbations.

In the 1-year placebo controlled trial in subjects with atopic dermatitis (Trial 7), the safety profile of DUPIXENT in subjects with moderate-to-severe atopic dermatitis. The safety profile of DUPIXENT through Week 52 was generally consistent with the safety profile observed at Week 24.
atopic dermatitis (Trial 7). The safety profile of DUPIXENT in subjects followed through Week 52 was similar to the safety profile observed at Week 16 in Trial 6. The long-term safety profile of DUPIXENT observed in adolescents was consistent with that seen in adults with atopic dermatitis.

**Asthma**
A total of 2888 adult and adolescent subjects with moderate-to-severe asthma (AS) were evaluated in 3 randomized, placebo-controlled, multicenter trials of 24 to 52 weeks duration (AS Trials 1, 2, and 3). Of these, 2678 trials had history of 10 or more exacerbations in the year prior to enrollment despite regular use of medium- to high-dose inhaled corticosteroids plus an additional controller(s) (AS Trials 1 and 2). A total of 210 subjects with oral corticosteroid-dependent asthma receiving high-dose inhaled corticosteroids plus up to two additional controllers were enrolled (AS Trial 3). The safety population (AS Trials 1 and 2) was 12-87 years of age, of which 63% were female, and 62% were white. DUPIXENT 200 mg or 300 mg was administered subcutaneously Q2W, following an initial dose of 400 mg or 600 mg, respectively. In AS Trials 1 and 2, the proportion of subjects who discontinued treatment due to adverse events was 4% of the placebo group, 3% of the DUPIXENT 200 mg Q2W group, and 6% of the DUPIXENT 300 mg Q2W group.

Table 2 summarizes the adverse reactions that occurred at a rate of at least 1% in subjects treated with DUPIXENT and at a higher rate than in their respective comparator groups in AS Trials 1 and 2.

**Table 2: Adverse Reactions Occurring in ≥1% of the DUPIXENT Groups in Asthma Trials 1 and 2 and Greater than Placebo (6-Month Safety Pool)**

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>DUPIXENT 200 mg Q2W</th>
<th>DUPIXENT 300 mg Q2W</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection site reactions</td>
<td>111 (14%)</td>
<td>144 (19%)</td>
<td>50 (6%)</td>
</tr>
<tr>
<td>Ophthalmologic pain</td>
<td>13 (2%)</td>
<td>19 (2%)</td>
<td>7 (1%)</td>
</tr>
<tr>
<td>Eosinophilia</td>
<td>17 (2%)</td>
<td>16 (2%)</td>
<td>2 (&lt;1%)</td>
</tr>
</tbody>
</table>

A total of 722 adult subjects with chronic rhinosinusitis with nasal polyposis (CRSwNP) were evaluated in 2 randomized, placebo-controlled, multicenter trials of 24 to 52 weeks duration (CSNP Trials 1 and 2). The safety pool consisted of data from the first 24 weeks of treatment from both studies. In the safety pool, the proportion of subjects who discontinued treatment due to adverse events was 5% of the placebo group and 2% of the DUPIXENT 300 mg Q2W group.

Table 3 summarizes the adverse reactions that occurred at a rate of at least 1% in subjects treated with DUPIXENT and at a higher rate than in their respective comparator group in CSNP Trials 1 and 2.

**Table 3: Adverse Reactions Occurring in ≥1% of the DUPIXENT Group in CRSwNP Trials 1 and 2 and Greater than Placebo (24-Week Safety Pool)**

<table>
<thead>
<tr>
<th>Adverse Reaction</th>
<th>DUPIXENT 300 mg Q2W</th>
<th>Placebo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injection site reactions</td>
<td>28 (6%)</td>
<td>12 (4%)</td>
</tr>
<tr>
<td>Conjunctivitis</td>
<td>7 (2%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Anaphylaxis</td>
<td>14 (3%)</td>
<td>5 (2%)</td>
</tr>
<tr>
<td>Gastritis</td>
<td>7 (2%)</td>
<td>2 (1%)</td>
</tr>
<tr>
<td>Eosinophilia</td>
<td>6 (1%)</td>
<td>0 (&lt;1%)</td>
</tr>
<tr>
<td>Toothache</td>
<td>5 (1%)</td>
<td>1 (&lt;1%)</td>
</tr>
</tbody>
</table>

**Conjunctivitis**
During the 52-week treatment period of concomitant therapy atop dermatitis (Trial 3), conjunctivitis was 16% of the DUPIXENT 300 mg Q2W + TCS group (20 per 100 subject-years) and in 9% of the placebo + TCS group (10 per 100 subject-years). Among asthma subjects, the frequency of conjunctivitis was similar between DUPIXENT and placebo. In the 52-week CRSwNP study (CSNP Trial 2), the frequency of conjunctivitis was 3% in the DUPIXENT subjects and 1% in the placebo subjects; all of these subjects recovered [see Warnings and Precautions (5.2)].

**Eczema Herpeticum and Herpes Zoster**
The rate of eczema herpeticum was similar in the placebo and DUPIXENT groups in the atop dermatitis trials. Herpes zoster was reported in 0.1% of the DUPIXENT groups (<1 per 100 subject-years) and in <1% of the placebo group (1 per 100 subject-years) in the 16-week atop dermatitis monotherapy trials. In the 52-week DUPIXENT + TCS atop dermatitis trial, herpes zoster was reported in 1% of the DUPIXENT + TCS group (1 per 100 subject-years) and 2% of the placebo + TCS group (2 per 100 subject-years). Among asthma subjects the frequency of herpes zoster was similar between DUPIXENT and placebo. Among CRSwNP subjects there were no reported cases of herpes zoster or eczema herpeticum.

**Hypersensitivity Reactions**
Hypersensitivity reactions were reported in <1% of DUPIXENT-treated subjects. These included skin reaction, serum sickness-like reaction, generalized urticaria, rash, erythema nodosum, and anaphylaxis [see Contraindications (4), Warnings and Precautions (5.1), and Adverse Reactions (6.2)].

**Eosinophils**
DUPIXENT-treated subjects had a greater initial increase from baseline in blood eosinophil count compared to subjects treated with placebo. In subjects with atopic dermatitis, the mean and median increases in blood eosinophils from baseline to Week 4 were 100 and 0 cells/mcL, respectively. In subjects with asthma, the mean and median increases in blood eosinophils from baseline to Week 4 were 130 and 10 cells/mcL, respectively. In subjects with CRSwNP, the mean and median increases in blood eosinophils from baseline to Week 16 were 150 and 50 cells/mcL, respectively. Across all indications, the incidence of treatment-emergent eosinophilia (≥500 cells/mcL) was similar in DUPIXENT and placebo groups. Treatment-emergent eosinophilia (≥500 cells/mcL) was reported in <2% of DUPIXENT-treated patients and <0.5% of the placebo group. Blood eosinophil counts declined to near baseline levels during study treatment [see Warnings and Precautions (5.3)].

**Cardiovascular (CV)**
In the 1-year placebo-controlled trial in subjects with asthma (AS Trial 2), CV thromboembolic events (CV deaths, non-fatal myocardial infarctions [MI], and non-fatal strokes) were reported in 1 (0.2%) of the DUPIXENT 200 mg Q2W group, 4 (0.6%) of the DUPIXENT 300 mg Q2W group, and 2 (0.3%) of the placebo group.

In the 1-year placebo-controlled trial in subjects with atopic dermatitis (Trial 3), CV thromboembolic events (CV deaths, non-fatal MIs, and non-fatal strokes) were reported in 3 (0.9%) of the DUPIXENT + TCS 300 mg Q2W group, 0 (0.0%) of the DUPIXENT + TCS 300 mg Q2W group, and 1 (0.3%) of the placebo + TCS group.

In the 24-week placebo-controlled trial in subjects with CRSwNP (CSNP Trial 1), CV thromboembolic events (CV deaths, non-fatal myocardial infarctions, and non-fatal strokes) were reported in 1 (0.7%) of the DUPIXENT group and 0 (0.0%) of the placebo group. In the 1-year placebo controlled trial in subjects with CRSwNP (CSNP Trial 2), there were no cases of CV thromboembolic events (CV deaths, non-fatal myocardial infarctions, and non-fatal strokes) reported in any treatment arm.

**6.2 Immunogenicity**
For all therapeutic proteins, there is a potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) formation and any associated response in any individual may be influenced by several factors, including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to dupilumab in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

Approximately 5% of subjects with atopic dermatitis, asthma, or CRSwNP who received DUPIXENT 300 mg Q2W for 52 weeks developed antibodies to dupilumab; ~2% exhibited persistent ADA responses, and ~2% had neutralizing antibodies.

Approximately 9% of subjects with asthma who received DUPIXENT 200 mg Q2W for 52 weeks developed antibodies to dupilumab; ~4% exhibited persistent ADA responses, and ~4% had neutralizing antibodies. Approximately 4% of subjects in the placebo groups in the 52-week studies were positive for antibodies to DUPIXENT; ~2% exhibited persistent ADA responses, and ~1% had neutralizing antibodies.

Approximately 16% of adolescent subjects with atopic dermatitis who received DUPIXENT 300 mg or 200 mg Q2W for 16 weeks developed antibodies to dupilumab; ~3% exhibited persistent ADA responses, and ~5% had neutralizing antibodies.

**7. DRUG INTERACTIONS**
Two subjects who experienced high titer antibody responses developed Stevens-Johnson syndrome or serum sickness-like reactions during DUPIXENT therapy [see Warnings and Precautions (5.1)].

**7.1 Live Vaccines**
Avoid use of live vaccines in patients treated with DUPIXENT.
7.2 Non-Live Vaccines

Immune responses to vaccination were assessed in a study in which subjects with atopic dermatitis were treated once weekly for 16 weeks with 300 mg of dupilumab (twice the recommended dosing frequency). After 12 weeks of DUPIXENT administration, subjects were vaccinated with a Tdap vaccine (Adacel®) and a meningococcal polysaccharide vaccine (Menomune®). Antibody responses to tetanus toxoid and serogroup C meningococcal polysaccharide were assessed 4 weeks later. Antibody responses to both vaccine antigens were similar in dupilumab-treated and placebo-treated subjects. Immune responses to the other active components of the Adacel and Menomune vaccines were not assessed.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Exposure Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to DUPIXENT during pregnancy. Please contact 1-877-311-8972 or go to https://mothersofbaby.org/ongoing-study/dupixent/ to enroll in or to obtain information about the registry.

Risk Summary

Available data from case reports and case series with DUPIXENT use in pregnant women have not identified a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. Human IgG antibodies are known to cross the placental barrier; therefore, DUPIXENT may be transmitted from the mother to the developing fetus. There are adverse effects on maternal and fetal outcomes associated with asthma in pregnancy (see Clinical Considerations). In an enhanced pre- and post-natal development study, no adverse developmental effects were observed in offspring born to pregnant monkeys after subcutaneous administration of a homologous antibody against interleukin 4-receptor alpha (IL-4Ra) during organogenesis through parturition at doses up to 10-times the maximum recommended human dose (MRHD) (see Data). The estimated background risk of major birth defects and miscarriage for the indicated populations are unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Considerations

Disease-Associated Maternal and/or Embryo-fetal Risk

In women with poorly or moderately controlled asthma, evidence demonstrates that there is an increased risk of preeclampsia in the mother and prematurity, low birth weight, and small for gestational age in the neonate. The level of asthma control should be closely monitored in pregnant women and treatment adjusted as necessary to maintain optimal control.

Data

Animal Data

In an enhanced pre- and post-natal development toxicity study, pregnant cynomolgus monkeys were administered weekly subcutaneous doses of homologous antibody against IL-4Ra up to 10 times the MRHD (on a mg/kg basis of 100 mg/kg/week) from the beginning of organogenesis through parturition. No treatment-related adverse effects on embryofetal toxicity or malformations, or on morphological, functional, or immunological development were observed in the infants from birth through 6 months of age.

8.2 Lactation

Risk Summary

There are no data on the presence of dupilumab in human milk, the effects on the breastfed infant, or the effects on milk production. Maternal IgG is known to be present in human milk. The effects of local gastrointestinal and limited systemic exposure to dupilumab on the breastfed infant are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for DUPIXENT and any potential adverse effects on the breastfed child from DUPIXENT or from the underlying maternal condition.

8.4 Pediatric Use

Atopic Dermatitis

The safety and efficacy of DUPIXENT have been established in pediatric patients 12 years of age and older with moderate-to-severe atopic dermatitis. A total of 251 adolescents ages 12 to 17 years old with moderate-to-severe atopic dermatitis were enrolled in Trial 6. The safety and efficacy were generally consistent between adolescents and adults [see Adverse Reactions (6.1) and Clinical Studies (14.2) in the full prescribing information]. Safety and efficacy in pediatric patients (<12 years of age) with atopic dermatitis have not been established.

Asthma

A total of 107 adolescents aged 12 to 17 years with moderate to severe asthma were enrolled in AS Trial 2 and received either 200 mg (N=21) or 300 mg (N=18) DUPIXENT (or matching placebo either 200 mg [N=34] or 300 mg [N=34]) Q2W. Asthma exacerbations and lung function were assessed in both adolescents and adults. For both the 200 mg and 300 mg Q2W doses, improvements in FEV1 (LS mean change from baseline at Week 12) were observed (0.38 L and 0.27 L, respectively). For the 200 mg Q2W dose, subjects had a reduction in the rate of severe exacerbations that was consistent with adults. Safety and efficacy in pediatric patients (<12 years of age) with asthma have not been established. Dupilumab exposure was higher in adolescent patients than in adults at the respective dose level which was mainly accounted for by difference in body weight (see Clinical Pharmacology (12.3) in the full prescribing information). The adverse event profile in adolescents was generally similar to the adults [see Adverse Reactions (6.1)].

CRSwNP

CRSwNP does not normally occur in children. Safety and efficacy in pediatric patients (<18 years of age) with CRSwNP have not been established.

8.5 Geriatric Use

Of the 1472 subjects with atopic dermatitis exposed to DUPIXENT in a dose-ranging study and placebo-controlled trials, 67 subjects were 65 years or older. Although no differences in safety or efficacy were observed between older and younger subjects, the number of subjects aged 65 and over is not sufficient to determine whether they respond differently from younger subjects [see Clinical Pharmacology (12.3) in the full prescribing information]. Of the 1977 subjects with asthma exposed to DUPIXENT, a total of 240 subjects were 65 years or older. Efficacy and safety in this age group was similar to the overall study population.

10 OVERDOSE

There is no specific treatment for DUPIXENT overdose. In the event of overdose, monitor the patient for any signs or symptoms of adverse reactions and institute appropriate symptomatic treatment immediately.

17 PATIENT COUNSELING INFORMATION

Advise the patient and/or caregiver to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Pregnancy Registry

There is a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to DUPIXENT during pregnancy. Encourage participation in the registry [see Use in Specific Populations (8.1)].

Administration Instructions

Provide proper training to patients and/or caregivers on proper subcutaneous injection technique, including aseptic technique, and the preparation and administration of DUPIXENT prior to use. Advise patients to follow sharps disposal recommendations [see Instructions for Use].

Hyperosmolality

Advise patients to discontinue DUPIXENT and to seek immediate medical attention if they experience any symptoms of hyperosmolality reactions [see Warnings and Precautions (5.1)].

Conjunctivitis and Keratitis

Advise patients to consult their healthcare provider if new onset or worsening eye symptoms develop [see Warnings and Precautions (5.2)].

Eosinophilic Conditions

Advise patients to notify their healthcare provider if they present with clinical features of eosinophilic pneumonia or vasculitis consistent with eosinophilic granulomatosis with polyangiitis [see Warnings and Precautions (5.3)].

Not for Acute Asthma Symptoms or Deteriorating Disease

Inform patients that DUPIXENT does not treat acute symptoms or acute exacerbations. Inform patients to seek medical advice if their asthma remains uncontrolled or worsens after initiation of treatment with DUPIXENT [see Warnings and Precautions (5.4)].

Reduction in Corticosteroid Dosage

Inform patients to not discontinue systemic or inhaled corticosteroids except under the direct supervision of a physician. Inform patients that reduction in corticosteroid dose may be associated with systemic withdrawal symptoms and/or unmask conditions previously suppressed by systemic corticosteroid therapy [see Warnings and Precautions (5.5)].

Patients with Comorbid Asthma

Advise patients with atopic dermatitis or CRSwNP who have comorbid asthma not to adjust or stop their asthma treatment without talking to their physicians [see Warnings and Precautions (5.6)].


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