

Under the direction of Rebecca Gruchalla, M.D., Ph.D., the [Division of Allergy and Immunology](#) in the Department of Internal Medicine (IM) and the [Division Pediatric Allergy and Immunology](#) in the Department of Pediatrics work as one team. While administratively separate, the two Allergy and Immunology divisions function as one, blending teaching, clinical care, and research.

Patient care and clinical activities are based at the Asthma, Allergy, and Immunology and Immunodeficiency Clinics at Children’s Health, Parkland Memorial Hospital, and UT Southwestern, where division faculty provide comprehensive evaluation, diagnostic, and management services for children and adults, respectively, with allergy, asthma, and immunological disorders.

Faculty members participate in both clinical and basic science research efforts. Drs. Bird and Parrish perform important clinical research in food allergy; Drs. Khan and Chow in drug allergy; and Dr. Wysocki in immunodeficiency. The Clinical Immunology Program is recognized as a Jeffrey Modell Foundation Diagnostic and Research Center.

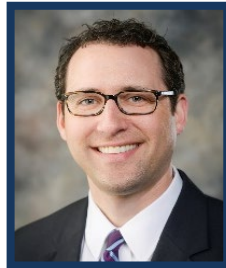


Rebecca Gruchalla, M.D., Ph.D.
Professor, Division Chief

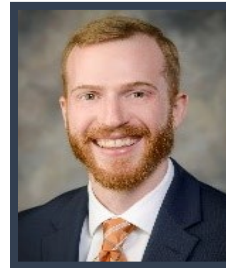
The Division has one of only 78 Accreditation Council for Graduate Medical Education-accredited programs for fellowship training in allergy and immunology. Division faculty also provide the major instruction to pediatric and internal medicine residents in the evaluation and management of children and adults with allergic diseases, asthma, and immunodeficiency diseases.

Division Faculty

Allergy and immunology spans both Pediatrics and Internal Medicine, with five pediatric-based and three internal medicine-based faculty members who are all certified by the American Board of Allergy and Immunology. All division faculty are clinically active and firmly committed to clinical teaching. Volunteer faculty members in private practice also participate in clinical and educational activities.



Drew Bird, M.D.
Professor



Jeffrey Chambliss, M.D.
Assistant Professor



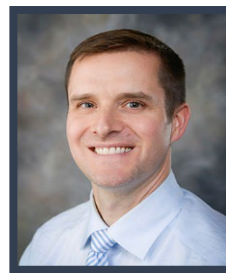
Timothy Chow, M.D.
Assistant Professor



David Khan, M.D.
Professor



Rory Nicolaides, M.D.
Assistant Professor



Christopher Parrish, M.D.
Assistant Professor



Christian Wysocki, M.D., Ph.D.
Associate Professor

Honors / Awards

Best Doctors/Pediatric Specialists in Dallas, D Magazine, America’s Top Doctors, Castle Connolly

- Drew Bird
- Rebecca Gruchalla
- David Khan
- Christopher Parrish

Texas Super Doctors, Texas Monthly, Texas Super (top) Doctors

- Drew Bird
- Jeffrey Chambliss (Rising Star)
- Rebecca Gruchalla
- David Khan
- Rory Nicolaides (Rising Star)
- Christopher Parrish

Drew Bird

- Promoted to Professor

David Khan

- Donald Stevenson Lectureship Award – Western Society of Allergy, Asthma and Immunology

Invited Lectures

Timothy Chow

- Methodist Health System Family Medicine Residency Program Conference, Dallas, TX, February 2022
 - *“Overview of Drug Allergy”*

Rebecca Gruchalla

- Baylor University Medical Center Grand Rounds, Dallas, TX, February 2022
 - *“Anti TSLP Treatment of Severe Asthma: Game changer or just another new kid on the block?”*
- Advanced Management of Chronic Rhinosinusitis and the Unified Airway Conference, Dallas, TX, January 2022
 - *“Advanced Management of Chronic Rhinosinusitis and the Unified Airway – Tezepelumab and Asthma”*

Rory Nicolaides

- Internal Medicine Grand Rounds, Texas Health Presbyterian Hospital, Dallas, TX, February 2022
 - *“A Practical Approach to Urticaria and Angioedema”*

Drew Bird

- PEM Talks, Children’s Health, Dallas, TX, April 2022
 - *“Is this urgent? Allergic Emergencies (and non-emergencies) Every Pediatrician Should Know”*

Jeffrey Chambliss

- Allergy & Immunology Grand Rounds, Oregon Health & Science University, Portland, OR, 2022
 - *“Updates in Asthma: Utilizing Guideline Based Recommendations”*
- Children’s Health Live, Dallas, TX, 2022
 - *“From Seasonal Allergies and Asthma to Vaccine Reactions: A Potpourri of Allergy Topics, Practice to Practice”*

Conference Presentations

American Academy of Allergy, Asthma, and Immunology Annual Meeting, Phoenix, AZ, February 2022

Bird D

Oral Presentation, *"Updates in Food Allergy Research: What You Should Know"*

Chambliss J

Oral Presentation, *"Obtaining the Correct Asthma Diagnosis by Utilizing Asthma Guidelines"*

Oral Presentation, *"Pathophysiology of Urticaria"*

Oral Presentation, *"Case Scenarios of Urticaria and Possible Therapies for Improvement"*

Chow T

Oral Presentation, *"Is It Just Me or Does My Throat Feel Tight? Considering Mimickers of Anaphylaxis"*

Oral Presentation, *"Anaphylaxis After COVID-19 Vaccination: A Registry-Based Study."*

Khan DA

Oral presentation, *"Updates on Drug Allergy Practice Parameter"*

Oral presentation, *"JACI In Practice Year in Review: Drug Allergy and Urticaria/Angioedema"*

Oral presentation, *"Antibiotic Allergy: Utilizing the In Practice Drug Allergy Resources"*

Parrish C

Workshop, *"Telemedicine Tips for Advanced Practice Providers: Which Allergy Patients and Conditions Are Best Suited for Telemedicine?"*

Symposium, *"Improving Your Clinical Practice: Understanding Different Types of Food Challenges and Their Associated Procedures"*

Other Conferences

Bird D

British Society of Allergy and Clinical Immunology Global Allergy Online Symposium, London, England, United Kingdom, February 2023

Presentation, *"Future Immunotherapy Adjuvants"*

Chambliss J

American Academy of Pediatrics Annual Meeting, Anaheim, CA, October 2022

Presentation, *"Asthma and Respiratory Allergies – Recent Advances in Allergy/Immunology"*

Chow T

TAAIS Annual Meeting, Lost Pines, TX, April 2022

Presentation, *"Re-labeling in Drug Allergy"*

Presentation, *"Safety of Subcutaneous Immunotherapy in Severe Asthma"*

Khan DA

Advanced Rhinosinusitis Course, Dallas, TX January 2022

Presentation, *"Updates on AERD"*

Western Society of Allergy, Asthma and Immunology, Maui, HI, February 2022

Presentation, *"Updates on AERD (Donald Stevenson Lectureship)"*

Presentation, *"What's New in the Updated Drug Allergy Parameter"*

University of Chicago Internal Medicine Grand Rounds (Virtual) March 2022

Presentation, *"Updates on Antibiotic Allergy"*

Southeastern Allergy Meeting, Charleston, SC, March 2022

Presentation, *"Updates on Antibiotic Allergy"*

Presentation, *"Refractory Chronic Urticaria"*

Korean Allergy, Asthma, and Immunology 50th Meeting, Seoul, Korea, May 2022

Presentation, *"Updates on Cephalosporin Allergy"*

North Carolina Allergy, Asthma and Immunology Society Meeting, Outer Banks, NC, May 2022

Presentation, *"Updates on Antibiotic Allergy"*

UTSW Anesthesiology Grand Rounds, Dallas, TX, June 2022

Presentation, *"Penicillin Allergy and Perioperative Anaphylaxis"*

European, Allergy, Asthma, and Immunology Meeting, Prague, Czech Republic, July 2022

Presentation, *"Updates from the JACI Journals on Drug Allergy"*

Florida Allergy, Asthma, and Immunology Society Meeting, Orlando, FL, July 2022

Presentation, *"Updates on Antibiotic Allergy"*

Presentation, *"Refractory Chronic Urticaria"*

Allergy & Immunology Grand Rounds, Mayo Clinic, Rochester, MN, August 2022

Presentation, *"Drug Allergy Parameter Updates"*

Minnesota Allergy Society, St Paul, MN, August 2022

Presentation, *"Refractory Chronic Urticaria"*

TAAIS Primary Care Resident's Conference, Lakeway, TX, August 2022

Presentation, *"Careers in Allergy & Immunology"*

Presentation, *"Drug Allergy"*

JPS OB Grand Rounds. Virtual, September 2022

Presentation, *"Updates on Antibiotic Allergy for OB/GYN Specialists"*

Regional Outreach for Residents on Allergy & Immunology, Washington, DC, October 2022

Presentation, *"Why I Should Become an Allergist/Immunologist"*

Medicine Grand Rounds, University of Iowa, Iowa City, IA, October 2022

Presentation, *"What's New in Antibiotic Allergies?"*

Allergy & Immunology Meeting, 2022

Presentation, *"Refractory Chronic Urticaria"*

World Allergy Organization Meeting, Istanbul, Turkey, October 2022

Presentation, *"What's New in Antibiotic Allergy?"*

PRACTALL meeting, Washington, DC, October 2022
Presentation, *"Drug Challenge Terminology"*

ACAAI Annual Meeting, Louisville, KY, November 2022
Presentation, *"Literature Review: The Year's Best Articles"*
Presentation, *"Updates from the 2022 Drug Allergy Practice Parameter"*
Presentation, *"New Approaches to Penicillin Allergy"*

Parrish C

Texas Allergy Asthma & Immunology Society (TAAIS) Annual Meeting, Lost Pines, TX, April 2022
Presentation, *"Update on Eosinophilic Eosophogitis"*

Education and Training

The Division of Pediatric Allergy and Immunology is committed to providing quality medical education for medical students, residents, and fellows. It has an active fellowship program and provides inpatient and outpatient opportunities for residents and medical students.

Medical Students

Pediatric Allergy and Immunology offers a fourth-year clerkship for medical students. This course provides an in-depth exposure to pediatric allergy and immunology via:

- Clinical experience
- One-on-one discussions between student and faculty regarding pre-determined topics outside of the clinic
- Attending structured didactic sessions/conferences
- Self-study through prepared curriculum material

The Division of Allergy and Immunology is an Ambulatory Clerkship clinic site, providing second- and third- year medical students with exposure to allergy and immunology clinical experiences in the pediatric allergy and adult asthma clinics.

Rory Nicolaidis was selected as an Associate Clerkship Director for the Pediatrics Clerkship in the UTSW Medical School. In her role, Dr. Nicolaidis is the Course Director for both the Pediatrics Sub-Internship course and the Pediatrics Track of the Residency Essentials course. As Course Director of Residency Essentials, Dr. Nicolaidis has developed a four-week curriculum of didactic and simulation sessions designed to prepare 24 fourth-year medical students who have applied to pediatrics residency for their intern year.

Residents

The Pediatric Allergy and Immunology Division provides the major instruction to pediatric and internal medicine residents in the evaluation and management of children and adults with allergic diseases, asthma, and immunodeficiency diseases. It also provides didactic teaching for the residents on the basics of allergy and immunology and directs teaching for the residents in the regular departmental clinical conferences and as part of the inpatient consultation service.

An Allergy and Immunology elective is available for pediatric and internal medicine residents, and fourth-year medical students. The objectives of the elective are to:

- Develop a working differential diagnosis of allergies, asthma, and primary immunodeficiency disorders.
- Learn how to conduct a complete physical exam, including the upper and lower airways.
- Examine and discuss patients from all major allergy and immunology categories: allergic rhinitis, asthma, urticaria, drug allergy, food allergy, and primary immunodeficiency.

Residents see outpatients in the clinics under the supervision of one of the members of the Division faculty. Relevant articles about specific allergic and immunologic disorders are provided to residents at the beginning of each rotation, and residents attend clinical conferences offering didactic teaching for fellows.

Drs. Rory Nicolaides and Timothy Chow also lead quarterly half-day sessions for the Pediatric Residency Academic Half Days. These sessions consist of interactive small group learning via a journal club, interactive case presentation, and didactics on Allergy and Immunology topics.

Fellows

Although recognized for its scientific achievements, the Division of Pediatric Allergy and Immunology is committed to excellence in clinical care and teaching. Toward this end, the Allergy and Immunology Training Program, directed by David Khan, M.D., has grown in both size and stature with four funded fellowship positions since it enrolled its first fellow in 1982.

Balanced Clinical Experiences

Successful training in Allergy and Immunology should consist of balanced exposure to training experiences involving adults and children, no matter what the training background or the long-term plans of any particular fellow in training. Drs. Rebecca Gruchalla, David Khan, and Chris Wysocki oversee the adult teaching clinics at Parkland Memorial Hospital and the University West Campus, while Drs. Drew Bird, Chris Parrish, Jeffrey Chambliss, Chris Wysocki, Rory Nicolaides, and Tim Chow oversee the teaching clinics at Children’s Health™.

Further staffing of both adult and pediatric clinics is provided by our 14-volunteer clinical faculty. Approximately 40% of Allergy fellows have come from pediatric house staff programs, and approximately half of the outpatient clinics required of Allergy and Immunology fellows primarily involve children.

Diversified Training Experiences

The UT Southwestern program offers a diversity of clinical experiences in Allergy and Immunology. It has a strong primary immunodeficiency program and is one of the Diagnostic and Research Centers for the Jeffrey Modell Centers Network. In addition, a Food Allergy Center has been established for clinical and research purposes at Children’s Health™. The Food Allergy Center has been recognized as a Food Allergy Research & Education (FARE) Clinical Network Center of Excellence since 2015 and was awarded the designation of a Discovery Center of Distinction in 2020.

The Adult Allergy Division operates the Parkland Asthma Clinic, which oversees the care of adult patients with moderate to severe asthma, and the Parkland Allergy Clinic and the clinics at the University’s West Campus, which are tertiary/quaternary referral centers for patients with chronic urticaria, drug allergies, hereditary angioedema, common variable immunodeficiency, mastocytosis, and anaphylaxis.

Fellows also have exposure to other common conditions including rhinitis, asthma, sinusitis, and atopic dermatitis in both the pediatric and adult clinics.

Research

All fellows are required to participate in at least one research project. Current and past projects have been extremely diverse – most are clinically oriented, and some are basic science-oriented – a reflection of the differing interests of the past and current fellows. Because training positions are fully funded by Parkland Memorial Hospital and Children’s Medical Center, and not by federal training grants, fellows are encouraged to consider research opportunities in a diversity of fields.

Fellows are encouraged to present the results of their research studies at national meetings. The majority of fellows are able to publish at least one manuscript based on their fellowship training. Fellows in training are encouraged to travel to one national meeting during each of the two training years and are provided financial support for this purpose.

Success of Training Program Graduates

Within the past 16 years, 100% of the graduates of UT Southwestern’s Allergy and Immunology training program have passed the American Board of Allergy and Immunology certifying examination. Most graduates are currently in private or group practice settings; however, a few have become full-time medical school faculty members. More than half of our clinical faculty are prior graduates of the Allergy and Immunology training program.

Research Activities

Dr. David Khan is conducting various research projects in adults focused on drug allergies, refractory chronic urticaria, mood disorders and asthma, and rush immunotherapy.

Drs. Bird and Parrish continue conducting active research into interventional therapeutics for treatment of life-threatening food allergies. Since 2010, more than 20 clinical research trials have been conducted in the Food Allergy Center with support from a variety of sources, including private foundations and grants and industry support. In 2019, Dr. Bird was invited to participate in the National Institutes of Health (NIH)/National Institute of Allergy and Infectious Diseases (NIAID)-funded Consortium for Food Allergy Research. In 2020, Drs. Bird and Parrish were awarded the FARE Clinical Network Discovery Center of Designation grant, providing \$50,000 per year through 2025. Dr. Parrish continues to participate in clinical trials of emerging therapies for eosinophilic esophagitis as well.

Dr. Wysocki collaborates with Dr. Nicolai Van Oers in the basic Immunology department on projects related to novel gene discovery in primary immunologic disorders and on various aspects of DiGeorge/22q11.2 deletion syndrome. In collaboration with Dr. Victor Aquino from the Stem Cell Transplant team, the program is involved in clinical research through the Primary Immunodeficiency Treatment Consortium.

Dr. Timothy Chow conducts active research into characterizing pediatric adverse reactions to drugs, investigating novel diagnostic and management strategies for pediatric drug allergy, and increasing access to drug allergy evaluations.

Clinical Activities

Faculty cover an active consult service at Children’s Health, Parkland Memorial Hospital, and UT Southwestern University Hospitals, as well as outpatient clinic services in Asthma, Allergy, and Immunology at Children’s and the University’s West Campus.

Clinical Immunology Program

The Clinical Immunology Program was awarded recognition by the Jeffrey Modell Foundation as a Diagnostic and Research Center for primary immunodeficiency diseases. Directed by Dr. Christian Wysocki and with the new addition of pediatric nurse practitioner Kelly Ann Williams, the Clinical Immunology Program serves a large geographical referral area encompassing North Texas, eastern New Mexico, Oklahoma, western Louisiana, and southern Arkansas. This comprehensive program provides both diagnostic and state-of-the-art treatment opportunities for patients with primary immunodeficiency diseases.

The clinical program also partners with members of the basic Immunology department at UT Southwestern in research and educational efforts.

Furthermore, Dr. Wysocki staffs adult Immunodeficiency clinics at UT Southwestern and Parkland Hospital. This allows state-of-the-art treatment of adult patients with immunodeficiency disorders and, importantly, allows effective transitioning of adolescent and young adult patients from the pediatric immunodeficiency clinics to the adult clinics while maintaining continuity of care.

Food Allergy Center

Under the direction of Dr. Drew Bird, Dedman Family Scholar in Clinical Care, the Food Allergy Center treats a broad range of allergic diseases in both inpatient and outpatient settings and will be conducting research that is instrumental in developing treatments and therapies. This Center opened in 2010 and is the only academic-affiliated pediatric food allergy center in North Texas. Since 2015, the Food Allergy Center has been recognized as a FARE Clinical Network Center of Excellence and, in 2020, received designation as a Clinical Network Discovery Center of Distinction.

The Food Allergy Center is also home to the Dallas Eosinophilic Esophagitis Program at Children's Health. Dr. Christopher Parrish is Co-Director of this multidisciplinary program, which utilizes a team approach to the management of eosinophilic esophagitis involving a pediatric allergist, pediatric gastroenterologists, a dietitian, and a child psychologist with expertise in feeding problems.

Asthma and Allergy Clinic

In addition to other allergic diseases, Drs. Jeffrey Chambliss, Rory Nicolaides, and Tim Chow evaluate and care for children with persistent allergic asthma along with a volunteer faculty member, Dr. William Neaville. The targeted therapies for these patients may include biologic therapies and/or allergy shots offered through the immunotherapy clinic. The immunotherapy clinic also treats patients with allergic rhinitis and utilizes biologic therapy in the care of patients with chronic urticaria.

Dr. Jeffrey Chambliss also cares for patients in a multidisciplinary clinic for high-risk asthma patients. This clinic joins the disciplines of Pulmonary, Allergy and Immunology, Psychology, Respiratory and Physical Therapy, Nutrition, and Social Work to address the needs of this specific patient population.

Pediatric Drug Allergy Program

Dr. Timothy Chow has established the Pediatric Drug Allergy program, the first and only academic-affiliated pediatric drug allergy program in Texas. Through this program, patients with a broad range of adverse drug reactions are evaluated to assess underlying mechanisms and provide individualized management recommendations to ensure that children are offered the safest and most effective drug therapeutic options. Common implicated drugs that we manage are vaccines, biologics, chemotherapeutics, beta-lactams, and other antibiotics. In addition to clinical care, the Pediatric Drug Allergy Program conducts research on the clinical features, diagnostic tools, and therapies for drug hypersensitivity reactions.

Patient Visits

Allergy and Immunology Patient Visits By Type Per Location By Year.

Dallas

	2017	2018	2019	2020	2021	2022
Food Allergy new patient visits	956	912	740	667	898	829
Food Allergy follow up visits	719	752	819	901	1,059	1,323
Food allergy challenge visits	524	429	652	463	532	482
Allergy new patient visits	677	777	1,294	794	1,548	2,006
Allergy follow up visits	724	830	1,079	1,049	1,817	2,217
Immunology new patient visits	339	251	242	277	330	253
Immunology follow up visits	495	468	465	485	663	634
Total Dallas Visits	4,434	4,419	5,291	4,636	6,847	7,744

Legacy

	2017	2018	2019	2020	2021	2022
Food Allergy new patient visits	423	632	654	504	268	577
Food Allergy follow up visits	241	275	397	512	254	569
Food Allergy challenge visits	25	9	13	10		
Total Legacy Visits	689	916	1,064	1,026	522	1,182

THD

	2018	2019	2020	2021	2022
Food Allergy new patient visits	112	127	126	254	199
Food Allergy follow up visits	109	133	113	166	187
Total THD Visits	221	260	239	420	386

Total All Locations

	2017	2018	2019	2020	2021	2022
Total New, follow up, and challenge visits	5,123	5,556	6,615	5,901	7,789	9,312

Current Grant Support

Drew Bird

Grantor: NIH-National Inst of Allrgy Infect Dis

Title of Project: New Horizons in the Prevention and Treatment of Food Allergy

Role: Principal Investigator

Dates: 03/2021 – 02/2023

Grantor: Food Allergy Research & Education (FARE)

Title of Project: FARE Membership - Clinical Research Center Distinction

Role: Principal Investigator

Dates: 07/2020 – 06/2025

Grantor: DBV Technologies

Title of Project: Open-label Follow-up Study of the PEPITES Study to Evaluate the long-term efficacy and safety of Viaskin Peanut (PEOPLE Study)

Role: Principal Investigator

Dates: 2017 – 2022

Grantor: Novartis Institutes For Research

Title of Project: (Novartis QGE031) A 52 week, multi-center, randomized, double-blind placebo-controlled study to assess the clinical efficacy and safety of ligelizumab (QGE0312) in decreasing the sensitivity to peanuts in patients with peanut allergy

Role: Principal Investigator

Dates: 07/2022 – 06/2026

Grantor: Siolta Therapeutics, Inc

Title of Project: A Phase 1b/2, randomized, double-blind, placebo-controlled, multi-center study of STMC-103H in neonates and infants at risk for developing allergic disease

Role: Principal Investigator

Dates: 06/2022 – 12/2040

Grantor: NIH-NIAID and Genentech, UM2AI13086

Title of Project: Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Children and Adults (OUtMATCH)

Role: Principal Investigator

Dates: 2019 – 2024

Timothy Chow

Grantor: American College of Allergy Asthma & Immunology

Title of Project: Shouldering the Burden of Pediatric Penicillin Allergy Labels: Delabeling in the Primary Care Setting

Role: Principal Investigator

Dates: 08/2021 – 10/2022

Rebecca Gruchalla

Grantor: NATIONAL INSTITUTE OF HEALTH / Benaroya Research Inst At Virginia Mason

Title of Project: ITN Clinical Trial: Systemic Allergic Reactions to SARS-CoV-2 Vaccination (SARS Vaccination) 2UM1AI109565-08

Role: Co-Investigator

Dates: 02/2021 – 01/2022

Christopher Parrish

Grantor: Regeneron Pharmaceuticals, Inc.

Title of Project: A Randomized, Double-Blind, Placebo-Controlled Study to Investigate the Efficacy and Safety of Dupilumab in Pediatric Patients with Active Eosinophilic Esophagitis (R668-EE-1877)

Role: Principal Investigator

Dates: 08/2021 – 11/2022

Grantor: Regeneron Pharmaceuticals, Inc.

Title of Project: A Phase 3, Randomized, 3 Part Study to Investigate the Efficacy and Safety of Dupilumab in Adult and Adolescent Patients with Eosinophilic Esophagitis (R668-EE-1774)

Role: Principal Investigator

Dates: 07/2019 – 12/2040

Grantor: DBV Technologies

Title of Project: Open-label Follow-up Study of the PEPITES Study to Evaluate the long-term efficacy and safety of Viaskin Peanut (PEOPLE Study)

Role: Site Sub-Investigator
Dates: 04/2017 – 2022

Grantor: Food Allergy Research and Education
Title of Project: Clinical Network Discovery Center of Distinction
Role: Co- Investigator
Dates: 2020 – 2025

Grantor: NIH-NIAID and Genentech
Title of Project: Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Children and Adults (OUTMATCH)
Role: Site Sub-Investigator
Dates: 03/2019 – 02/2024

David Khan

Grantor: NHLBI-National Heart, Lung and Blood Institute
Title of Project: The Dallas Asthma Brain and Cognition Study
Role: Principal Investigator
Dates: 07/2018 – 05/2022

Grantor: NATIONAL INSTITUTE OF HEALTH / Benaroya Research Inst At Virginia Mason
Title of Project: ITN Clinical Trial: Systemic Allergic Reactions to SARS-
Role: Principal Investigator
Dates: 02/2021 – 01/2022

Journal Publications

1. Alvarez-Cuesta E, Madrigal-Burgaleta R, Broyles AD, Cuesta-Herranz J, Guzman-Melendez MA, Maciag MC, Phillips EJ, Trubiano JA, Wong JT, Ansotegui I, Steering Committee Authors, Review Panel Members. [Standards for practical intravenous rapid drug desensitization & delabeling: A WAO committee statement.](#) *World Allergy Organ J.* 2022 Jun;15(6):100640. PMID:35694005
2. Anvari S, Samarakoon U, Fu X, Jagers J, Gonzalez-Estrada A, Chong HJ, Van Meerbeke SW, Petrov AA, **Khan DA**, Freeman EE, Banerji A, Blumenthal KG. [Urticaria and/or angioedema secondary to mRNA COVID-19 vaccines: Updates from a United States case registry.](#) *Allergy.* 2023 Jan;78(1):283-286. PMID:35842747
3. Bhalla P, Du Q, Kumar A, Xing C, Moses A, Dozmorov I, **Wysocki CA**, Cleaver OB, Pirolli TJ, Markert ML, de la Morena MT, Baldini A, van Oers NS. [Mesenchymal cell replacement corrects thymic hypoplasia in murine models of 22q11.2 deletion syndrome.](#) *J Clin Invest.* 2022 Nov 15;132(22):. PMID:36136514
4. Brown ES, Palka JM, Lehman HK, Kulikova A, **Khan DA**, Lopez J, Antony A, Persaud D, Tiro J, Ivleva EI, Nakamura A, Patel Z, Holmes T, Humayun Q, Lloyd T, Allen K, Kaur S, Owitz MS, Pak RJ, Zablonksi KG, Adragna MS, Chankalal R, Wood BL, Miller BD. [The Impact of Caregiver Depression on Child Asthma Outcomes: Pathways and Mechanisms.](#) *J*

Allergy Clin Immunol Pract. 2023 Jan;11(1):200-209. PMID:36610757

5. Charron TL, Gill MA, Filkins LM, Rajaram V, **Wysocki CA**, Whittemore BA. [Obstructive hydrocephalus and intracerebral mass secondary to *Epicoccum nigrum*](#). *Med Mycol Case Rep.* 2022 Mar;35():18-21. PMID:35036296
6. **Chow TG, Khan DA.** [Sulfonamide Hypersensitivity](#). *Clin Rev Allergy Immunol.* 2022 Jun;62(3):400-412. PMID:34212341
7. **Chow TG**, Oppenheimer J, Joshi SR. [A Review of Adverse Reactions to Biologics Used in Allergy-Immunology Practice](#). *J Allergy Clin Immunol Pract.* 2022 Dec;10(12):3075-3086. PMID:36162800
8. **Chow TG**, Franzblau LE, **Khan DA.** [Adverse Reactions to Biologic Medications Used in Allergy and Immunology Diseases](#). *Curr Allergy Asthma Rep.* 2022 Dec;22(12):195-207. PMID:36306059
9. **Chow TG**, Palka JM, Stone B, Trojan T, Epstein TG, **Khan DA.** [Safety of subcutaneous immunotherapy in patients with severe asthma](#). *Ann Allergy Asthma Immunol.* 2022 Nov;129(5):585-591.e3. PMID:35998846
10. Ciaccio C, Goldsobel AB, Anagnostou A, Beyer K, Casale TB, Deschildre A, Fernández-Rivas M, Hourihane JO, Krawiec M, Lieberman J, Scurlock AM, Vickery BP, Smith A, Tilles SA, Adelman DC, Brown KR, RAMSES (ARC007) and ARC011 Study Groups:. [Participant characteristics and safety outcomes of peanut oral immunotherapy in the RAMSES and ARC011 trials](#). *Ann Allergy Asthma Immunol.* 2022 Dec;129(6):758-768.e4. PMID:35973655
11. Fulkerson PC, Lussier SJ, Bendixsen CG, Castina SM, Gebretsadik T, Marlin JS, Russell PB, Seibold MA, Everman JL, Moore CM, Snyder BM, Thompson K, Tregoning GS, Wellford S, Arbes SJ, Bacharier LB, Calatroni A, Camargo CA, Dupont WD, Furuta GT, **Gruchalla RS**, Gupta RS, Hershey GK, Jackson DJ, Johnson CC, Kattan M, Liu AH, Murrison L, Oâ Connor GT, Phipatanakul W, Rivera-Spoljaric K, Rothenberg ME, Seroogy CM, Teach SJ, Zoratti EM, Togias A, Hartert TV. [Human Epidemiology and RespOnse to SARS-CoV-2 \(HEROS\): Objectives, Design and Enrollment Results of a 12-City Remote Observational Surveillance Study of Households with Children using Direct-to-Participant Methods](#). *medRxiv.* 2022 Jul 10;():. PMID:35860216
12. Guyer AC, Macy E, White AA, Kuruvilla ME, Robison RG, Kumar S, **Khan DA**, Phillips EJ, Ramsey A, Blumenthal K. [Allergy Electronic Health Record Documentation: A 2022 Work Group Report of the AAAAI Adverse Reactions to Drugs, Biologicals, and Latex Committee](#). *J Allergy Clin Immunol Pract.* 2022 Nov;10(11):2854-2867. PMID:36151034
13. Jackson DJ, Bacharier LB, Gergen PJ, Gagalis L, Calatroni A, Wellford S, Gill MA, Stokes J, Liu AH, **Gruchalla RS**, Cohen RT, Makhija M, Khurana Hershey GK, O'Connor GT, Pongracic JA, Sherenian MG, Rivera-Spoljaric K, Zoratti EM, Teach SJ, Kattan M, Dutmer CM, Kim H, Lamm C, Sheehan WJ, Segnitz RM, Dill-McFarland KA, Visness CM, Becker PM, Gern JE, Sorkness CA, Busse WW, Altman MC, US National Institute of Allergy and Infectious Disease's Inner City Asthma Consortium. [Mepolizumab for urban children with exacerbation-prone eosinophilic asthma in the USA \(MUPPITS-2\): a randomised, double-blind, placebo-controlled, parallel-group trial](#). *Lancet.* 2022 Aug 13;400(10351):502-511. PMID:35964610
14. Jagers J, Samarakoon U, Fu X, Gonzalez-Estrada A, Anvari S, Chong HJ, Van Meerbeke SW, Petrov AA, **Chow TG**, Banerji A, Judd A, Blumenthal KG. [Anaphylaxis after COVID-19 vaccination: A registry-based study](#). *J Allergy Clin Immunol Pract.* 2022 Nov;10(11):3020-3023. PMID:35964925

15. **Khan DA**, Banerji A, Blumenthal KG, Phillips EJ, Solensky R, White AA, Bernstein JA, Chu DK, Ellis AK, Golden DBK, Greenhawt MJ, Horner CC, Ledford D, Lieberman JA, Oppenheimer J, Rank MA, Shaker MS, Stukus DR, Wallace D, Wang J, Chief Editor(s); **Khan DA**, Golden DBK, Shaker M, Stukus DR, Workgroup Contributors; **Khan DA**, Banerji A, Blumenthal KG, Phillips EJ, Solensky R, White AA, Joint Task Force on Practice Parameters Reviewers; Bernstein JA, Chu DK, Ellis AK, Golden DBK, Greenhawt MJ, Horner CC, Ledford D, Lieberman JA, Oppenheimer J, Rank MA, Shaker MS, Stukus DR, Wallace D, Wang J. [Drug allergy: A 2022 practice parameter update.](#) *J Allergy Clin Immunol.* 2022 Dec;150(6):1333-1393. PMID:36122788
16. Miller TA, Koppelman SJ, **Bird JA**, Hernandez-Trujillo V, Thyagarajan A, Mack D, Chalil JM, Green TD, Baumert JL. [Peanut cross-contamination in randomly selected baked goods.](#) *Ann Allergy Asthma Immunol.* 2022 Apr;128(4):439-442. PMID:35131409
17. Narula M, Lakshmanan U, Borna S, Schulze JJ, Holmes TH, Harre N, Kirkey M, Ramachandran A, Tagi VM, Barzaghi F, Grunebaum E, Upton JEM, Hong-Diep Kim V, Wysocki C, Dimitriadis VR, Weinberg K, Weinacht KG, Gernez Y, Sathi BK, Schelotto M, Johnson M, Olek S, Sachsenmaier C, Roncarolo MG, Bacchetta R. [Epigenetic and immunological indicators of IPEX disease in subjects with FOXP3 gene mutation.](#) *J Allergy Clin Immunol.* 2023 Jan;151(1):233-246.e10. PMID:36152823
18. Otani IM, Lehman HK, Jongco AM, Tsao LR, Azar AE, Tarrant TK, Engel E, Walter JE, Truong TQ, **Khan DA**, Ballow M, Cunningham-Rundles C, Lu H, Kwan M, Barmettler S. [Practical guidance for the diagnosis and management of secondary hypogammaglobulinemia: A Work Group Report of the AAAAI Primary Immunodeficiency and Altered Immune Response Committees.](#) *J Allergy Clin Immunol.* 2022 May;149(5):1525-1560. PMID:35176351
19. **Parrish C, Gupta M, Patel G, Bird JA.** Cow's milk allergy. Reference Module in Food Science. Elsevier. 2022 December. <https://doi.org/10.1016/B978-0-323-96018-2.00004-3>
20. Patel N, Goyal A, Thaker A, Troendle D, **Parrish C.** [A Case Series on the Use of Dupilumab for Treatment of Refractory Eosinophilic Gastrointestinal Disorders.](#) *J Pediatr Gastroenterol Nutr.* 2022 Aug 1;75(2):192-195. PMID:35666881
21. Pongracic JA, Gagnon R, Sussman G, Siri D, Oriel RC, Brown-Whitehorn TF, Green TD, Campbell DE, Anvari S, Berger WE, **Bird JA**, Chan ES, Cheema A, Chinthrajah RS, Chong HJ, Dowling PJ, Fineman SM, Fleischer DM, Gonzalez-Reyes E, Kim EH, Lanser BJ, MacGinnitie A, Mehta H, Petroni D, Rupp N, Schneider LC, Scurlock AM, Sher LD, Shreffler WG, Sindher SB, Stillerman A, Wood R, Yang WH, Bois T, Sampson HA, Bégin P. [Safety of Epicutaneous Immunotherapy in Peanut-Allergic Children: REALISE Randomized Clinical Trial Results.](#) *J Allergy Clin Immunol Pract.* 2022 Jul;10(7):1864-1873.e10. PMID:34848381
22. Seibold MA, Moore CM, Everman JL, Williams BJM, Nolin JD, Fairbanks-Mahnke A, Plender EG, Patel BB, Arbes SJ, Bacharier LB, Bendixsen CG, Calatroni A, Camargo CA Jr, Dupont WD, Furuta GT, Gebretsadik T, **Gruchalla RS**, Gupta RS, Khurana Hershey GK, Murrison LB, Jackson DJ, Johnson CC, Kattan M, Liu AH, Lussier SJ, O'Connor GT, Rivera-Spoljaric K, Phipatanakul W, Rothenberg ME, Seroogy CM, Teach SJ, Zoratti EM, Togias A, Fulkerson PC,

Hartert TV, HEROS study team. [Risk factors for SARS-CoV-2 infection and transmission in households with children with asthma and allergy: A prospective surveillance study.](#) *J Allergy Clin Immunol.* 2022 Aug;150(2):302-311. PMID:35660376

23. Sharma H, Nanda A, Bingemann TA, **Khan DA**, Sussman J, Kalman D, Mosnaim G. [Fellows in Training Wellness in Allergy and Immunology: AAAAI Workgroup Report.](#) *J Allergy Clin Immunol Pract.* 2022 Nov;10(11):2868-2874. PMID:36207275
24. Shroba J, Das R, Bilaver L, Vincent E, Brown E, Polk B, Ramos A, Russell AF, **Bird JA**, Ciaccio CE, Lanser BJ, Mudd K, Sood A, Vickery BP, Gupta R. [Food Insecurity in the Food Allergic Population: A Work Group Report of the AAAAI Adverse Reactions to Foods Committee.](#) *J Allergy Clin Immunol Pract.* 2022 Jan;10(1):81-90. PMID:34862158
25. Vesper S, Wymer L, Kroner J, Pongracic JA, Zoratti EM, Little FF, Wood RA, Kercksmar CM, **Gruchalla RS**, Gill MA, Kattan M, Teach SJ, Patel S, Johnson CC, Bacharier LB, Gern JE, Jackson DJ, Sigelman SM, Togias A, Liu AH, Busse WW, Khurana Hershey GK. [Association of mold levels in urban children's homes with difficult-to-control asthma.](#) *J Allergy Clin Immunol.* 2022 Apr;149(4):1481-1485. PMID:34606833
26. Washington C 3rd, Dapas M, Biddanda A, Magnaye KM, Aneas I, Helling BA, Szczesny B, Boorgula MP, Taub MA, Kenny E, Mathias RA, Barnes KC, CAAPA, Khurana Hershey GK, Kercksmar CM, Gereige JD, Makhija M, **Gruchalla RS**, Gill MA, Liu AH, Rastogi D, Busse W, Gergen PJ, Visness CM, Gold DR, Hartert T, Johnson CC, Lemanske RF Jr, Martinez FD, Miller RL, Ownby D, Seroogy CM, Wright AL, Zoratti EM, Bacharier LB, Kattan M, O'Connor GT, Wood RA, Nobrega MA, Altman MC, Jackson DJ, Gern JE, McKennan CG, Ober C. [African-specific alleles modify risk for asthma at the 17q12-q21 locus in African Americans.](#) *Genome Med.* 2022 Sep 29;14(1):112. PMID:36175932
27. Yang K, Han J, Asada M, Gill JG, Park JY, Sathe MN, Gattineni J, Wright T, **Wysocki CA**, de la Morena MT, Garza LA, Yan N. [Cytoplasmic RNA quality control failure engages mTORC1-mediated autoinflammatory disease.](#) *J Clin Invest.* 2022 Jan 18;132(2):. PMID:35040435
28. Yang K, Han J, Gill JG, Park JY, Sathe MN, Gattineni J, Wright T, Wysocki C, de la Morena MT, Yan N. [The mammalian SKIV2L RNA exosome is essential for early B cell development.](#) *Sci Immunol.* 2022 Jun 3;7(72):eabn2888. PMID:35658009

Book Chapters

1. **Chambliss JM**, Lee MJ (2022). [Chapter 15: Drug allergy testing.](#) In: Chang C (ED), *Allergic and Immunological Diseases – A Practical Guide to the Evaluation, Diagnosis and Management of Allergic and Immunologic Diseases* (1st ed., pp. 419-436). San Diego, CA: Elsevier.
2. **Nicolaides RE**, Patel N, **Bird JA** (2022). [Diagnosis of Food Protein-Induced Enterocolitis Syndrome.](#) *Food Allergy* (1st ed.)
3. **Parrish C**, **Gupta M**, **Patel G**, **Bird JA** (2022). [Cow's milk allergy.](#) *Reference Module in Food Science.* Elsevier. <https://doi.org/10.1016/B978-0-323-96018-2.00004-3>

E-publications Book Chapters

1. Anvari S, Samarakoon U, Fu X, Jagers J, Gonzalez-Estrada A, Chong HJ, et al. [Urticaria and/or angioedema secondary to mRNA COVID-19 vaccines: Updates from a United States case registry](#). *Allergy*. 2022.PMID:35842747.
2. Arasaratnam RJ, **Chow TG**, Liu AY, **Khan DA**, Blumenthal KG, Wurcel AG. [Penicillin Allergy Evaluation and Health Equity: A Call to Action](#). *J Allergy Clin Immunol Pract*. 2022 Dec 12;():. PMID:36521831
3. Banerji A, Solensky R, Phillips EJ, **Khan DA**. [Drug Allergy Practice Parameter Updates to Incorporate Into Your Clinical Practice](#). *J Allergy Clin Immunol Pract*. 2022 Dec 20;():. PMID:36563781
4. Franzblau LE, Mauskar M, **Wysocki CA**. [Macrophage Activation Syndrome Complicated by Toxic Epidermal Necrolysis Following SARS-CoV-2 mRNA Vaccination](#). *J Clin Immunol*. 2022 Nov 28;():1/4/2023. PMID:36441289
5. **Khan DA**. [The best of 2022 American College of Allergy, Asthma, and Immunology literature review](#). *Ann Allergy Asthma Immunol*. 2022 Nov 29;():. PMID:36463071
6. Lozano-Ojalvo D, Chen X, Dunkin D, Agashe C, Baker MG, **Bird JA**, Molina E, Nowak-Wegrzyn A, Berin MC. [Untargeted serum metabolomic analysis reveals a role for purinergic signaling in FPIES](#). *J Allergy Clin Immunol*. 2022 Oct 25;():. PMID:36306938
7. Stone CA Jr, Robinson LB, Li L, Krantz MS, Kwah JH, Ortega G, Mancini C, Wolfson AR, Saff RR, Samarakoon U, Hong DI, Koo G, **Chow TG**, Gruchalla R, Liao JX, Kuster JK, Price C, Ahola C, **Khan DA**, Phillips EJ, Banerji A, Blumenthal KG. [Clinical Phenotypes of Immediate First-Dose Reactions to mRNA COVID-19: A Multicenter Latent Class Analysis](#). *J Allergy Clin Immunol Pract*. 2022 Sep 13;():. PMID:36108922