Curriculum Vitae and Bibliography Matthew A Rank, MD

Personal Information

Place of Birth: Milwaukee, WI

Citizenship: United States of America

Work Address: Mayo Clinic Arizona

13400 E Shea Blvd Scottsdale, AZ 85259

480-301-4284

Email Address: Rank.Matthew@mayo.edu

Present Academic Rank and Position

Consultant - Division of Allergy, Asthma, and Clinical Immunology, Department of 07/13/2012 - Present

Internal Medicine, Mayo Clinic, Scottsdale, Arizona

Staff member and co-director, Severe Asthma Clinic - Phoenix Children's 01/2013 - Present

Hospital, Phoenix, Arizona

Along with the pediatric pulmonology division at PCH, I co-direct this clinic that is

designed for children with severe asthma

Teaching/Examining Privileges in Clinical & Translational Science - Mayo Clinic 10/16/2013 - Present

Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and

Science

Consultant (Joint Appointment) - Department of Otolaryngology Head & Neck 12/03/2014 - Present

Surgery/Audiology, Mayo Clinic, Phoenix, Arizona

Chair - Division of Allergy, Asthma, and Clinical Immunology, Department of Internal 12/28/2016 - Present

Medicine, Mayo Clinic, Scottsdale, Arizona

Professor of Medicine - Mayo Clinic College of Medicine and Science 10/01/2020 - Present

Chair - Allergy Immunology Special Council, Mayo Clinic Enterprise 01/2021 - Present

Program Director - Allergy-Immunology Fellowship Training Program, Mayo Clinic, 07/2022 - Present

Phoenix, Arizona

Education

University of Wisconsin, Madison, Madison, Wisconsin - BS, Genetics and History 1994 - 1998

University of Wisconsin School of Medicine, Madison, Wisconsin - MD 1998 - 2002

Ohio State University, Columbus, Ohio - Resident, Internal Medicine/Pediatrics 2002 - 2006

Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine. 2006 - 2008

Rochester, Minnesota - Fellow, Allergy/Immunology

Allergy and Immunology, Programs in Rochester, Mayo School of Graduate Medical 07/01/2006 - 06/27/2008

Education, Mayo Clinic College of Medicine, Rochester, Minnesota - Resident

Additional Education

Practical Spirometry 03/2008

Mayo Clinic, Rochester, Minnesota

Writing Grants Workshop 04/2008

Mayo Clinic, Rochester, Minnesota

Career and Leadership Development Modules 1A, 1B, 1C (parts 1 and 3) 10/2008

Mayo Clinic

Career and Leadership Development Presentation Skills Program 09/2009

Mayo Clinic

Faculty enhancement and education development program in core clinical teaching 01/2010

Mayo Clinic Rochester Department of Medicine

Level 1 Guideline Panel Member Training 10/2020

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06/22/2011 - 07/12/2012

Certification

В

Board Certifications			
Ameı	rican Board of	Allergy and Immunology (ABAI)	
Al	llergy and Immu	unology	2008 - Present
Ameı	rican Board of	Internal Medicine (ABIM)	
In	ternal Medicine		2006 - Present
	rican Board of	Pediatrics	
Pe	ediatrics		2006 - Present
Other C	ertifications		
-	Clinic Quality	•	
	•	ity Fellow: Bronze Level Certification	2009
М	layo Clinic Qual	ity Fellow: Silver Level Certification	2011
Licens			
	linnesota	49088 (Medical)	2006 - 2014
Aı	rizona	45678 (Medical)	2012 - Present
	s and Award		04/0000
	isconsin Schoo	t Association Leadership Award-MEDIC Council - University of old of Medicine	01/2000
Re	esident Teachi	ing Award - Columbus (Nationwide) Children's Hospital	06/2006
	lemens von Pi sthma & Immun	rquet Abstract Award, 2nd place - American College of Allergy, nology	01/2007
	lemens von Pi nmunology	rquet Award, Mentor - American College of Allergy, Asthma &	01/2009
		Medicine 2009 Laureate Award - Mayo Clinic Rochester edicine, Mayo Clinic	11/2009
of		Year, Allergic Diseases - Mayo Fellows Association, Mayo School ical Education, Mayo Clinic College of Medicine, Rochester,	05/2010
		'Research Award - Foundation of the American College of and Immunology	11/01/2010 - 10/31/2011
So		ivery Scholar-Robert D. and Patricia E. Kern Center for the thcare Delivery, Mayo Clinic - Mayo Clinic Healthcare Delivery m	07/01/2012 - 06/30/2014
	dward J. O'Co sthma, and Imm	nnell Memorial Lectureship - American College of Allergy, nunology	11/2019
Di	istinguished C	linician Award - Mayo Clinic	11/2022
Previous Professional Positions and Major Appointments			
In	structor of Me	06/01/2008 - 04/30/2010	
		e Consultant - Division of Allergic Diseases, Department of Mayo Clinic, Rochester, Minnesota	06/28/2008 - 06/21/2011
A	ssistant Profes	ssor of Medicine - Mayo Clinic College of Medicine and Science	05/01/2010 - 08/31/2015

Clinic, Rochester, Minnesota

Consultant - Division of Allergic Diseases, Department of Internal Medicine, Mayo

Co-director, Multidisciplinary Clinic for Challenging Sinus Disease - Department of Otolaryngology and Medicine, Phoenix, Arizona Co-direct a specialty clinic with Dr. Devyani Lal of ENT focused on providing care with complex sinus disease	07/2012 - 07/2019
Associate Program Director, Research Scholars Program - Mayo Clinic Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery, Rochester, Minnesota	07/2014 - 06/2015
Program Director - Mayo Clinic Robert D. and Patricia E. Kern Center for the Science of Health Care Delivery, Rochester, Minnesota Research Scholars Program	07/2015 - 06/2021
Associate Professor of Medicine - Mayo Clinic College of Medicine and Science	09/01/2015 - 09/30/2020
Associate Program Director - Allergy-Immunology Fellowship Training Program, Mayo Clinic, Phoenix, Arizona	07/2016 - 06/2022
Interim Chair - Division of Rheumatology, Department of Internal Medicine, Mayo Clinic, Phoenix, Arizona	03/24/2021 - 07/25/2022
Service	
Community Memberships and Services	
Arizona Asthma Coalition	
Volunteer	2016 - Present
St. Vincent de Paul Clinic	0=/0000 P
Volunteer Physician	07/2022 - Present
Professional Memberships and Societies	
Professional Memberships and Services	
AcademyHealth Member	01/2012 - 01/2014
American Academy of Allergy, Asthma and Immunology	01/2012 - 01/2014
Member	03/2007 - Present
Fellow	03/2011 - Present
Annual Meeting Program Subcommittee	
Member	11/2014 - 11/2020
Health Care Delivery and Quality Planning Committee	
Member	07/2012 - Present
Secretary/Treasurer	11/2014 - 03/04/2017
Vice Chair	03/2017 - 03/2019
Chair	03/2019 - 03/2021
Immunotherapy Committee	0.1/0.000 1.1/0.01.1
Member	01/2008 - 11/2014
Rhinitis, Rhinosinusitis, and Ocular Allergy Committee Member	04/2040 44/2044
Interest Section Coordinating Committee	01/2010 - 11/2014
Member	11/2014 - 11/2019
Joint Task Force for Practice Parameters	11/2014 - 11/2019
Member	10/2016 - Present
Needs assessment and outcomes subcommittee	3.=2.2 · · · · · · · · · · · · · · · · · ·
Member	11/2014 - 03/01/2016
Quality Measures Stewardship Committee	
Chair	03/2023 - Present

American College of Allergy, Asthma & Immunology

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Member	01/2006 - Present
Fellow	06/2019 - Present
American Thoracic Society Member	01/2008 - 01/2012
Food Allergy and Anaphylaxis Network Member	01/2008 - 01/2012
Journal Responsibilities	
Journal Editorial Responsibilities	
American Journal of Rhinology & Allergy Editorial Board Member	07/2015 - 07/2017
Journal of Allergy and Clinical Immunology: In Practice Board Member	07/01/2014 - Present
Journal Other Responsibilities	
Allergy	04/0000 B
Reviewer Annals of Allergy, Asthma & Immunology	01/2009 - Present
Reviewer Clinical and Experimental Allergy	01/2007 - Present
Article Reviewer European Respiratory Journal	07/2012 - Present
Referee/Reviewer	07/2012 - Present
International Forum for Allergy & Rhinology Reviewer	11/03/2016 - Present
Journal of Allergy and Clinical Immunology Article Reviewer	07/2014 - Present
Journal of Allergy and Clinical Immunology: In Practice Article Reviewer	07/2012 - Present
Laryngoscope Reviewer	01/01/2016 - Present
Mayo Clinic Proceedings Article Reviewer	07/2008 - Present
Education Interests and Accomplishments	
Curriculum and Course Development	0000
Development of Web curriculum for Allergy-Immunology and Emergency Medicine Ohio State University Ohio	2006
Writing Allergen Immunotherapy Prescriptions Mayo Clinic	2009 - 2012
Vaccine allergy evaluation Mayo Clinic	2009 - 2012
Rhinitis and Rhinosinusitis: For Boards and Beyond Mayo Clinic	2009 - 2012
Practical Aspects of Allergen Immunotherapy: A novel web-based educational tool Development of a web-based module that includes interactive features to be used by allergy and immunology trainees throughout the country. Mayo Clinic	2009 - 2012
Rhinoscopy for Allergy Fellows Mayo Clinic	07/2011 - 07/2012
Allergy and Immunology Board Review for ENT RE-AIMS 2/16/2024 5:43:43 PM - Latest Update 2/16/2024 7:15:10 AM	2012 - Present

	Tackling Problematic Sinusitis, Course co-director Co-director with Dr. Devyani Lal of ENT for annual CME event that attracts world experts and 100 attendees/year Mayo School CME	03/2013 - 03/2018
	AAAAI HEDQ Quality improvement web site We created a web site with QI resources and a platform for QI project registry within the Allergy-Immunology field	01/2014 - 01/2016
	Patient Centered Care Domain, Co-leader Along with co-leader Dr. Natt, we are developing the patient-centered care domain for the science of healthcare delivery domain for the Mayo Medical School Mayo Medical School	07/2014 - Present
	AAAAI Asthma Practice Improvement Module Tool for members to obtain MOC and improve their asthma management	10/2016 - 10/2017
Те	aching	
	Cost effective medicine Ohio State University Medical Grand Rounds Columbus, Ohio	06/2006
	Board Review Session for Pediatrics Residency Mayo Clinic Rochester, Minnesota	04/2007
	Allergen immunotherapy prescription writing Allergy fellows Mayo Clinic	2008
	Skin disease and allergy testing: Indications, interpretation, and avoiding malnutrition Dermatology grand rounds Mayo Clinic	10/2008
	Vaccine allergy evaluation Allergy fellows Mayo Clinic	2009
	Allergy Testing Pediatric Residency lecture Mayo Clinic	02/2009
	Anaphylaxis and Urticaria in the inpatient setting Acute Care for the complex hospitalized patient for nurse practitioners and physician assistants	02/2013
	Chronic asthma management: Stepping down Department of Medicine Grand Rounds	03/2013
	Food allergy: myths, fads, and data Update on women's health	03/2013
	Update in Asthma Multidisciplinary update in pulmonary and critical care medicine	04/2013
	Medical management for chronic rhinosinusitis: from simple to Samter's Endoscopic and Skull based surgery	04/2013
	Pollen food allergy syndrome Dermatology Grand Rounds	09/2013
	ENT Grand Rounds; Chronic rhinosinusitis, an allergy-immunology perspective Mayo	03/2015
	Severe Asthma Diagnosis and Management A-I Fellows Educational Session Mayo	04/2015
	Chronic Rhinosinusitis Management A-I fellows educational session	04/2015

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Pulmonary Eosinophilia: Narrowing a broad differential diagnosis 04/2015

Annual Mayo Pulmonary CME course

Mayo CME

Work-Life Balance 04/2016

Kern Scholar Retreat Rochester, Minnesota

ANCA-associated sinusitis 09/09/2016

ENT Grand Rounds MCR/MCF/MCA

Chronic rhinosinusitis: Evidence for medical management and case studies 09/21/2016

A-I Fellow Educational Series

MCR/MCF/MCA

Subtyping Asthma 03/31/2017

Tackling Problematic Sinusitis

Phoenix, Arizona

Combined Allergy and ENT Sinus Clinics 03/31/2017

Tackling Problematic Sinusitis

Phoenix, Arizona

Rhinitis for the IM Boards 04/03/2017

Mayo Internal Medicine Residency program lecture series

Scottsdale, Arizona

Asthma: The Allergy Perspective 04/09/2017

Mayo Pulmonary CME course

Scottsdale, Arizona

Using Observational Data to Improve Asthma Care 05/04/2017 - Present

Mercy Care Plan Board Meeting

Loss of smell, taste, and hearing 10/17/2017 - Present

Mayo Clinic Enterprise wide allergy case conference

Asthma Care in Maricopa County: Observational Data to Population-level Action 01/08/2018

Center for the Science of Healthcare Delivery Works-in-Progress

The Unified Airway Hypothesis: Clinical Implications 03/23/2018

Mayo ENT CME

Chronic Rhinosinusitis: Learning Through Exposure to Clinical Cases 03/23/2018

Mayo Clinic Arizona Medical Grand Rounds

Aspirin Desensitization Interactive Workshop 03/24/2018

Mayo ENT CME

(Re) Ordering Treatment for Atopic Dermatitis 04/10/2018

Mayo Enterprise-Wide Allergy Case Conference

Scotts Valley, California

Why and How to Step Down Asthma Medications 04/15/2018

Mayo Pulmonary CME

Asthma 07/2018

Internal Medicine Residents Noon Conference

Mayo Clinic

Using Evidence to Choose Management for Patients with Eosinophilic Esophagitis 09/2018

Allergy Grand Rounds

Mayo Clinic

Kern Scholars Program 03/2019

Kern Center Grand Rounds

Mayo Clinic

The Full Evaluation at Mayo Clinic 03/2019

Allergy Grand Rounds

Mayo Clinic

Asthma 09/2019

Pulmonary Grand Rounds

Mayo Clinic

How to Avoid Pitfalls While Efficiently and Effectively Serving as a Journal Reviewer 10/2019

Tuesday Case Conference, Allergy Tri-Site - Faculty Development Series

Mayo Clinic

Biologics for Nasal Polyposis 02/2020

Allergy Grand Rounds

Mayo Clinic Phoenix, Arizona

New Asthma Guidelines 07/2020

Medicine Grand Rounds

Mayo Clinic

Jacksonville, Florida

Uncommon Allergy-Immunology Problems 08/2020

Allergy Grand Rounds

Mayo Clinic Phoenix, Arizona

Asthma 08/2020

Internal Medicine Residents' Noon Conference

Mayo Clinic Phoenix, Arizona

Mentorship

Harish, Amitha (Allergy/Immunology Fellow) 01/2008 - 01/2010

Description:

Current Status: Private Practice Allergy, Portsmouth, NH

Outcome: 1 presentation at a national meeting

Shah, Kunal (Allergy/Immunology Fellow) 01/2008 - 01/2010

Description:

Current Status: Staff allergist, Mayo Clinic Southwest Region, Mankato, MN **Outcome:** 2 abstract presentations at national meetings, 1 original publication in a

peer-reviewed journal

Elias, Martha (Allergy/Immunology Fellow) 01/2008 - 01/2011

Description:

Current Status: Assistant Professor of Medicine and Pediatrics, Dartmouth

University, Lebanon, NH

Outcome: 2 abstracts presented together at national meetings

Fox, Stephanie (Allergy/Immunology Fellow) 07/2009 - 06/2011

Description:

Current Status: Staff Allergist, HealthEast, St Paul, MN **Outcome:** 2 Abstract Presentations at national meetings

Patel, Sujan (Allergy/Immunology Fellow) 01/2010 - 01/2012

Description:

Current Status: Assistant Professor of Allergy and Immunology, New York Eye and

Ear Infirmary, New York, NY, Staff allergist

Outcome: 2 abstracts presented at national meetings

Podjasek, Jenna (Allergy/Immunology Fellow) 01/2011 - 07/2013

Description:

Current Status: Private Practice, A-I, Chicago, IL

Outcome: 1 abstract presented at a national meeting; 2 original articles submitted

for publication

Samant, Shefali (Allergy/Immunology Fellow) 01/2011 - 07/2013

Description:

Current Status: Currently at staff at Kaiser Permanente Southern California and

active academically

Outcome: 3 abstracts at national meetings; 3 original manuscripts submitted

Bauer MD, Cindy (Clinical Mentee) 07/2013 - Present

Description:

Current Status: Clinical Associate Professor of Pediatrics, Assistant Professor of Medicine (Mayo Clinic), Clinical Professor of Pediatrics (University of Arizona), and

Staff Allergist, Phoenix Children's Hospital

Outcome: Serving as mentor for Dr. Bauer as she sets up a new clinical allergy-immunology practice at a large children's hospital; 1 presentation and 1 publication completed together.

Davis, Destinee 07/2013 - 03/2018

Description:

Current Status: Physician's Assistant Student

Outcome: Presentation at PCH research day; Admitted to PA school

Hines, Brittany (Resident Mentee) 07/2013 - 06/2018

Description:

Current Status: Allergy-Immunology Fellow at Mayo Clinic **Outcome:** 2 abstracts presented at national meetings

Gionfriddo, Michael (Research Mentee) 01/2014 - 01/2017

Description:

Current Status: Investigator I, Center for Pharmacy Innovation and Outcomes,

Geisinger Precision Health Center, Forty-Fort, PA

Outcome: 4 original manuscripts written together, served on PhD thesis committee

prior to his current faculty position

Wright, Benjamin (Research Mentee) 07/2015 - Present

Description:

Current Status: Assistant Professor of Medicine (Mayo) and Clinical Professor of Pediatrics (University of Arizona), and Staff Allergist-Immunologist, Phoenix

Children's Hospital

Outcome: Clinical research mentee, meet weekly, multiple IRB protocols, research

presentations, and publications

Doyle, Alfred (Postdoctoral Research Fellow) 07/2017 - Present

Description:

Current Status: Principal Technologist **Outcome:** Multiple papers/presentations

Jacobsen, Elizabeth 07/2017 - Present

Description:

Current Status: Associate Consultant I **Outcome:** Multiple papers/presentations

Freeman, Catherine (Allergy/Immunology Fellow) 07/2019 - Present

Description:

Current Status: Allergy-Immunology Fellow **Outcome:** Multiple papers/presentations

Maddux, Jacob (Allergy/Immunology Fellow) 07/2019 - Present

Description:

Current Status: Allergy-Immunology Fellow **Outcome:** Multiple papers/presentations

Lam, Regina (Medical Student) 01/2020 - Present

Description: Mentor for Masters of Science of Health Care Delivery Degree

Current Status: Mayo Clinic Alix School of Medicine - Arizona

Outcome:

Academic Career Development

Faculty Enhancement and Education Development Program in Core Clinical 01/2010

Teaching Mayo Clinic

Rochester, Minnesota

Certificate in Clinical and Translational Science 02/2011

Matthew A Rank, MD	
Research certificate program, completed >12 credits in courses like statistics, epidemiology, trial design, ethics, etc. Center for Translational Science Activity, Mayo Clinic Rochester, Minnesota	
Instructional Framework: Novice to Experts Faculty Development Workshop Mayo Medical School Arizona Campus Scottsdale, Arizona	08/2015
Helping Struggling Learners: A SOAP Approach Faculty Development Workshop Mayo Medical School Arizona Campus Scottsdale, Arizona	09/2015
Artistic Renderings of MMS Arizona – Human Factors Mayo Medical School Arizona Campus Scottsdale, Arizona	11/2015
FERPA Faculty Development Workshop Mayo Medical School Arizona Campus Scottsdale, Arizona	11/2015
AAAAI Leadership Institute Faculty Development - Developed to cultivate next generation of AAAAI leaders; group session participation was by invitation AAAAI Annual Meeting Houston, Texas	11/2015
AAAAI Leadership Institute Faculty Development - Developed to cultivate next generation of AAAAI leaders; group session participation was by invitation AAAAI Annual Meeting Los Angeles, California	11/2016
Distilling Your Message - Walter Dishell Faculty Development	11/2016
Enough About Burnout: Let's Talk Well Being and the Role of Coaching - Kerri Palamara Faculty Development Mayo Clinic Phoenix, Arizona	06/2017
Teaching Diagnostic Reasoning in the Clinical Setting - Adam Cifu, MD Faculty Development Mayo Clinic Phoenix, Arizona	11/2017
Medical Reversal - Adam Cifu, MD Faculty Development Mayo Clinic Phoenix, Arizona	11/2017
One Minute Preceptor Faculty Development Take 5 Video	11/2017
How to Write Letters of Recommendation - Amy Oxentenko, MD Faculty Development Take 5 Video	02/2018
Selecting for Emotional Intelligence in Interviews - Josyln Vaught Faculty Development Workshop Mayo Clinic School of Graduate Medical Education Scottsdale, Arizona	07/2018
Teaching, Self Directed Learning & Reflection - Rick Nishimura, MD Faculty Development	04/2019

Take 5 Video - Allergy Division Meeting

Allergy Tri-Site - Dr. Lily Pien 10/2019

Faculty Development Series

Mayo Clinic Tuesday Case Conference

Teaching High Value Care - Stephanie Starr, MD 11/2019

Faculty Development

Take 5 Video

Overcoming Unconscious Bias 06/2020

Faculty Development

Online Module

Stereotype Threat 06/2020

Faculty Development

Online Module

Strategies to Support Learners Seeking Help - Lotte Dyrbye, MD, MHPE 09/2020

Faculty Development

Take 5 Video

Joy of Teaching - Mary Hedges, MD 01/2021

Faculty Development

Take 5 Video

Educational Activities

(1) Teaching residents, fellows, and multidisciplinary teams about diagnosis and management of airway disease, specifically chronic rhinosinusitis and asthma; (2) Curriculum development and teaching of the science of healthcare delivery, current activity in the Mayo Medical School; (3) Involved in the development of a MCA Allergy-Immunology fellowship to begin in 2017; (4) Involved in multiple educational efforts at the national level in the AAAAI, including multiple committees responsible for delivering content at the annual meeting and in other methods; (5) Co-director of annual Mayo Sinus CME course

Institutional/Departmental Administrative Responsibilities, Committee Memberships and Other Activities

Mayo Clinic

Arizona Center for the Science of Healthcare Delivery

Member 11/2014 - 2019

Review requests for research funding as part of a 5 person committee for

projects specific to the science of healthcare delivery at MCA

Mayo Clinic Kern Center

Kern Society Affiliate - Kern Center Scholars, Scholar Alumni and mentors of 09/25/2018 - Present

current scholars

Mayo Clinic in Rochester

Department of Internal Medicine

Division of Allergic Diseases

Allergic Diseases Rhinitis and Sinusitis Clinic

Physician Leader 06/2008 - 06/2012

I led the development of a specialty clinic for rhinitis/sinusitis, including the

procedural development of rhinoscopy in the division of allergy

Research Committee

Member 01/2008 - 06/2012

As a committee member, we met monthly the review research issues

directly related to the allergy division

Vaccine Allergy Clinic

Physician Leader 01/2009 - 06/2012

We started a vaccine allergy clinic in response to patient and institution

need

QUEST Assembly

Member 11/2009 - 06/2012

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I served on the Quality board in the department of medicine in Mayo Clinic Rochester

Mayo Clinic Rochester Committees

Clinical Practice Committee - Rochester

Pharmacy and Therapeutics Subcommittee - Rochester

Drug Desensitization Protocols Development

Participant 01/2008 - 06/2012

We developed standardized drug desensitization protocols for the

hospital practice

Mayo Clinic in Arizona

Mayo Clinic Arizona Committees

Executive Operations Team - Arizona

Rsearch Operations Management Team - Arizona

Clinical Research Subcommittee

Clinical Trial Review Group

Member 01/2017 - Present

Multidisciplinary Disease Oriented Group (DOG)

Member 07/2012 - Present Vice Chair 12/2014 - 12/2016 Chair 01/2017 - 01/2020

Activities at Other Institutions

Arizona State Allergy Society

Member 2012 - Present

Phoenix Children's Hospital Breathmobile

Research Director 2016 - Present

Presentations Extramural

National or International

Invited

Aspirin and antibiotic desensitization 02/2015

AAAAI Annual Meeting

Houston

Quality and Safety in Allergy 02/2015

AAAAI annual meeting

Houston, Texas

GRADing Eosinophilic Esophagitis Guidelines for the Allergist 11/2019

Plenary Presentation

AAAAI National Meeting

Houston, Texas

Biologics in Nasal Polyps: Who & When

03/2020 ENT Update 2020 & Tackling Problematic Sinusitis 2020

Sedona, Arizona

ENT-Allergy Partnership for CRS Rx 03/2020

ENT Update 2020 & Tackling Problematic Sinusitis 2020

Sedona, Arizona

Oral

Nearly Half of Systemic Reactions (SRs) to Allergen Immunotherapy (AIT) Occurred 2008

More Than 30 Minutes After the Injection

American College of Allergy, Asthma & Immunology (ACAAI)

Philadelphia, Pennsylvania

Allergen immunotherapy education project: a randomized study of a web based 01/2009

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07/2018

Matthew A Rank, MD	
intervention Allergy and Immunology Program Directors' Meeting San Antonio, Texas	
Medication interference with allergy skin tests: Which medications are true culprits? American College of Allergy, Asthma, and Immunology Miami Beach, Florida	2009
Negative vaccine allergy skin testing strongly predicts future vaccine tolerance American College of Allergy, Asthma, and Immunology Miami Beach, Florida	2009
Smell disturbance distinguishes CRS from NAR in an allergy-based subspecialty clinic for patients with sinonasal symptoms American College of Allergy, Asthma, and Immunology Miami Beach, Florida	2009
False positive skin tests to influenza vaccine are more common in patients with egg allergy than in patients without egg allergy American College of Allergy, Asthma, and Immunology (ACAAI) Phoenix, Arizona	2010
Systemic mediator release in systemic and large local reactions to subcutaneous allergen immunotherapy American College of Allergy, Asthma, and Immunology (ACAAI) Phoenix, Arizona	2010
How Commonly does symptom severity vary by season in nonallergic rhinitis American College of Allergy, Asthma, and Immunology Boston, Massachusetts	2011
The right dose allergen immunotherapy project: Establishing error rates and process mapping American Academy of Allergy, Asthma, and Immunology (AAAAI) San Francisco, California	2011
A randomized controlled trial of a web-based educational intervention for teaching allergen immunotherapy American Academy of Allergy, Asthma, and Immunology (AAAAI) San Francisco, California	03/2011
The risk of asthma exacerbation after stopping low-dose inhaled corticosteroids: a systematic review and meta-analysis of randomized controlled trials AAAAI Annual Meeting Anaheim, California	03/2012
Practical tips for accurate diagnosis of allergy and immunology disorders Presented twice Internal Medicine Update Sedona, Arizona	10/2015
Update on Asthma Treatment: Evidence-Based Recommendations for 2016 "Asthma Step Down" Session #4815: (Symposium presentation) American Academy of Allergy, Asthma, and Immunology Annual Meeting Los Angeles, California	2016
Diagnostic testing in recalcitrant chronic rhinosinusitis Tackling Problematic Sinusitis 2016 Phoenix, Arizona	03/2016
Opportunities to Improve Asthma Care in Arizona: A Role for All of Us Keynote Arizona Asthma Coalition Annual Meeting	10/2017
How to Link your Chronic Rhinosinusitis Evaluation to Actionable Treatment Seminar AAAAI, 2018	03/05/2018

Re-ordering Treatment for Atopic Dermatitis Mayo Clinic Allergy CME Course Coronado, California	07/2018
New Biologicals for Asthma Vasculitis Foundation Phoenix, Arizona	04/2019
Factors Associated with Dysfunctional Breathing Journal of Allergy and Clinical Immunology In Practice Journal Club Webinar	06/2019
Asthma Yardstick: Measure Up! ACAAI Webinar	07/2019
Top 10 Allergy Topics Mayo Clinic CME Sedona, Arizona	10/2019
Diet vs. Steroids for Eosinophilic Esophagitis AAAAI National Meeting Houston, Texas	11/2019
The Asthma Step-down Yardstick AAAAI National Meeting Houston, Texas	11/2019
Poster	
A Case of Food allergy Due To Longan Fruit American College of Allergy, Asthma & Immunology (ACAAI) Philadelphia, Pennsylvania	2006
Identification of Risk Factors for Systemic Reactions to Allergen Immunotherapy American College of Allergy, Asthma & Immunology (ACAAI) Dallas, Texas	2007
Management of Asthma Exacerbation in a Patient With Wiskott Aldrich Syndrome American College of Allergy, Asthma & Immunology (ACAAI) San Diego, California	2007
Antidepressant and Anxiolytic Prescription in Patients on Allergen Immunotherapy American College of Allergy, Asthma & Immunology (ACAAI) Philadelphia, Pennsylvania	2008
Cardioselective ß-blocker Prescription in Aged Asthmatics American Thoracic Society International Meeting Toronto, Ontario, Canada	2008
Activation of Dendritic Cells by IL-33 initiates a Th2 response American Academy of Allergy, Asthma, and Immunology (AAAAI) Washington, District of Columbia	2009
Antihistamine interference with allergy skin tests: how long should we wait? American Academy of Allergy, Asthma, and Immunology (AAAAI) Washington, District of Columbia	2009
Desensitization to trimethoprim/sulfamethoxazole in non-HIV patients American Academy of Allergy, Asthma, and Immunology (AAAAI) Washington, District of Columbia	2009
A clinical prediction rule for long term outcomes after stepping down asthma controller medications KI-Mayo Scientific Meeting Rochester, Minnesota	09/2014
Adherence to Topical Medications for Chronic Rhinosinusitis: Medication Possession Ratio and Description of Adherence Barriers American Academy of Allergy, Asthma, and Immunology 2016 Los Angeles, California	2016
Nasal and Pharyngeal Eosinophil Peroxidase Levels Represent Surrogate	
NINC 0 /4 C/000 4 5 40 40 DM	

Biomarkers for the Presence of Lower Airway Eosinophils in Adults with Poorly Controlled Asthma American Academy of Allergy, Asthma, and Immunology 2016 Los Angeles, California	02/2016
Omalizumab Utilization Trends for Asthma in the U.S. from 2003-2015 AAAAI Annual Meeting Atlanta, Georgia	02/2017
Step Down of Asthma Biologics AcademyHealth Virtual	06/2019
Asthma Biologic Persistence AAAAI Annual Meeting Virtual	03/2020
Regional	
Invited	
Medication Allergies: The Essentials for Busy Providers NP/PA Mayo Clinic Review Rochester, Minnesota	09/2011
Diagnosis and Management of Chronic Rhinosinusitis Mayo Clinical Reviews 2011 Rochester, Minnesota	10/2011
United Airways: An Integrated Approach to Airway Disorders Mayo Clinical Reviews 2011 Rochester, Minnesota	10/2011
Asthma in old age, pregnancy, and obesity Arizona Asthma Coalition Mesa, Arizona	10/2013
Best practices in pediatric sinusitis Phoenix Children's Hospital Pulmonary Grand Rounds Phoenix, Arizona	12/2014
Keynote-Opportunities to Improve Asthma Care in Maricopa County and Statewide Arizona Asthma Coalition Annual Conference	10/2017
Asthma care in Maricopa County: Observational Data to Population-level action Science of Healthcare Delivery Presentation Mayo Clinic, Scottsdale, AZ, Arizona	01/2018
Lower Respiratory Disease in Young Adults Grand Rounds Arizona State University Tempe, Arizona	05/2020
New Guidelines for Asthma: Changing How We Do Things Arizona State Asthma Coalition Annual Meeting Virtual	09/2020
Should We Be SMARTer About How We Use Inhalers? Asthma Toolbox Phoenix Children's Hospital Phoenix, Arizona	10/2020
Oral	
Pharmacological Therapy Through the Lifespan Part II: Adults, Pregnancy & Geriatrics Arizona Asthma Coalition Meeting Mesa, Arizona	10/2015
A Maricopa County Study of Utilization and Outcomes Among Children with Asthma	04/0010
and Medicaid Insurance	04/2016

Phoenix Children's Research Day

Allergy the New and the Shiny
Arizona State University Grand Rounds

05/2019

Tempe, Arizona

Poster

Aortic Valve Injury in a Patient that Presented with Cardiogenic Shock Ninety-Five 2005

Days Following Blunt Chest Wall Trauma Ohio State University Research Day

Columbus, Ohio

Unclassified

Oral

Chronic cough: Difficult Cases 03/2012

AAAAI San Francisco, California

Advances in allergen immunotherapy and upper airway diseases 05/2012

AAAAI Webinar

AAAAI

Quality Improvement and Safety in Allergy and Immunology 02/2013

AAAAI

San Antonio, Texas

Visiting Professorship

Visiting Professorships

Cleveland Clinic 10/08/2013

Pediatric Grand Rounds: "Chronic asthma medication management: Stepping Down" Allergy Grand Rounds: "Cases from the Multidisciplinary Clinic for

Challenging Sinus Disease"

Pediatric and Allergy Grand Rounds

Cleveland, Ohio

Clinical Practice, Interests, and Accomplishments

Clinical Practice: Adult and pediatric allergy, asthma and immunology Clinical Interests: Chronic rhinosinusitis; Nasal polyposis; Asthma; Allergen immunotherapy; Allergic and Nonallergic rhinitis; Chronic cough; Vaccine allergy; Drug allergy; Food allergy; Rhinoscopy Clinical Accomplishments: Served as physician champion in the initiation of the Rhinitis-Sinusitis clinic and the Vaccine allergy clinic. Currently initiating 2 new clinics: The Multidisciplinary Center for Challenging Sinus Disease (ENT-Allergy interdepartmental clinic) and the Pediatric Severe Asthma Clinic (partnership with pediatric pulmonology at Phoenix Children's Hospital)

Research Interests and Accomplishments

1. Asthma healthcare delivery and costs 2. Outcomes of stepping down asthma medication 3. Asthma quality measurement 4. Asthma management tools 5. Chronic rhinosinusitis triggers and epidemiology 6. Chronic rhinosinusitis management 7. Allergen immunotherapy safety

Quality Initiatives

Quality

Served as Division of Allergic Diseases Quality Chair, Bronze and Silver level certified, helped developed Quality Corner for AAAAI, and serves as mentor for trainee QI projects

07/2008 - 07/2012

Research Grants Awarded

07/2019 - 06/2027

09/2022 - 05/2027

07/2012 - 06/2014

Active Grants

Federal sub award

Program Precision Interventions for Severe Asthma (PrecISE) - CORE. 07/2019 - 06/2024 Director / Funded by National Heart, Lung, and Blood Institute. Funded by

Principal National Heart, Lung, and Blood Institute. (HL139054) Investigator

Program Precision Interventions for Severe Asthma (PrecISE). Funded by Director / National Institutes of Health. Funded by National Institutes of

Principal Health. (HL138998) Investigator

Program Southwest Health Equity Research Collaborative (SHERC): Gut

Director / Microbiome Manipulation for Treatment of Asthma: Southwest Principal Health Equity Research Collaborative (SHERC). Funded by Investigator National Institutes of Health. Funded by National Institutes of

Health. (U54 MD012388)

Completed Grants

Federal

Program Bending the asthma cost curve: Is optimizing medication the 09/2013 - 09/2014 Director / answer?. Funded by Agency for Healthcare Research and Quality.

Principal Funded by Agency for Healthcare Research and Quality. (R03

Investigator R03 HS022126)

Program Step down of asthma biologics in real-world practice settings. 08/2018 - 08/2021

Director / Funded by National Institutes of Health. Funded by National Institutes of Health. (R21 R21 HL140287)

Investigator

Co-Investigator The Pathogenesis of Chronic Rhinosinusitis. Funded by National

Institute of Allergy and Infectious Diseases. Funded by National

Institute of Allergy and Infectious Diseases. (R56 Al 49235)

Co-Investigator Type 2 Innate Lymphoid Cells and Asthma. Funded by National 07/2020 - 06/2023 Heart, Lung, and Blood Institute. Funded by National Heart, Lung,

and Blood Institute. (R01 HL117823)

Federal sub award

Program Using the Asthma APGAR to translate guidelines into practice. 09/2010 - 09/2015 Director / Funded by Agency for Healthcare Research and Quality. Funded

Principal by Agency for Healthcare Research and Quality. (HS 018431-

Investigator 01A1)

Program The Pathogenesis of Chronic Rhinosinusitis. Funded by National 07/2012 - 12/2013 Director / Institutes of Health. Funded by National Institutes of Health. (R56

Principal Al049235)

Investigator

Program Assessing decision maker tools for Asthma: the Asthma APGAR. 08/2013 - 07/2015

Director / Funded by Agency for Healthcare Research and Quality. Funded by Agency for Healthcare Research and Quality. (R01 HS018431) Investigator

Program Gut Microbiome Manipulation for Precision Treatment of Asthma. 11/2018 - 07/2019

Director / Funded by Flinn Foundation. Funded by Flinn Foundation.

Principal (Subagreement No. 1003860-01) Investigator

Program Data, Modeling, and Coordination Center for PrecISE Network. 01/2020 - 06/2021

Director / Funded by National Institutes of Health. Funded by National

Principal Institutes of Health. (U24HL138998) Investigator

Foundation

Program Identifying biomarkers that predict sytemic reactions to allergen 11/2010 - 10/2012 Director / immunotherapy. Funded by American College of Allergy, Asthma,

Principal and Immunology. Funded by American College of Allergy.

Investigator Asthma, and Immunology. (ACAAI 001)

Co-Investigator A Phase 2, Multicenter, Randomized, Double-blind, Placebo-01/2021 - 12/2022

controlled Study to Evaluate the Efficacy and Safety of Dupilumab and Milk Oral Immunotherapy for the Treatment of Patients with

Cow's Milk Allergy: Modifying Adverse Gastrointestinal

Complications During Milk Oral Immunotherapy (MAGIC). Funded by Stanford University. Funded by Stanford University. (Stanford

Milk Allergy)

Industry

Program Nocturnal avoidance of inhalant indoor allergen exposures in 10/2009 - 09/2010 Director / asthmatic children sensitized to dust mite, dog, or cat allergen: Principal Clinical benefits of a novel Personal Air Quality System

Investigator (Purezone). Funded by PureZone Technologies. Funded by

PureZone Technologies

Mayo Clinic

Principal A randomized, controlled trial of a novel web-based educational 01/2009 - 12/2009 Investigator

intervention for allergen immunotherapy that compares introductory pre-test questions with a traditional outline format.

Funded by El-10

Program 14-009369 A home-based airway inflammation assay for 01/2015 - 06/2016

Director / predicting asthma stability following a reduction in chronic asthma medications". Funded by MEGA Program - MCA Internal Funds. Principal

Investigator Funded by MEGA Program - MCA Internal Funds

Program 14-009369/ Protocol Amendment #1/ A home-based airway 01/2015 - 06/2016

Director / inflammation assay for predicting asthma stability following a reduction in chronic asthma medications". Funded by MEGA Principal Investigator Program - MCA Internal Funds. Funded by MEGA Program - MCA

Internal Funds. (FP00080424-A1)

2016 AZ Opportunity Fund - Utilization trends of omalizumab for Program 10/2016 - 12/2016

Director / asthma in real-world practice settings. Funded by MEGA Program Principal - MCA Internal Funds. Funded by MEGA Program - MCA Internal

Investigator Funds. (2016 AZ Opportunity Fund)

Imaging of Functionally Distinct Leukocyte Subtypes within Tissue 01/2017 - 06/2018 Program

Director / Biopsies Using Gene Expression Profiling and a Multiple RNA Principal Targeting Approach. Funded by ASU collaborative fund. Funded

Investigator by ASU collaborative fund

Mayo/PCH Center for Food Allergies - Donald R Levin Family Program 01/2017 - 12/2021

Fund. Funded by Development - Gifts from benefactors. Funded Director / by Development - Gifts from benefactors. (Levin Gift - Lee, J.) Principal

Investigator

Program Point-of-care technology for tailoring asthma treatment. Funded 01/2019 - 12/2019

Director / by CCaTS Office of Translation to Practice - Advance the Practice Research Award. Funded by CCaTS Office of Translation to Principal

Investigator Practice - Advance the Practice Research Award

Program Novel in-vitro nanoallergen-lgE-testing for drug allergy diagnosis. 09/2021 - 08/2022

Director / Funded by Department of Medicine Team Science, Funded by

Principal Department of Medicine Team Science. ()

Investigator

Co-Investigator Comparison between ACT and ACA in Children. Funded by SGP - 04/2011 - 04/2013

Small Grants Program <\$10K. Funded by SGP - Small Grants

Program <\$10K

Other

Question Writer: American Board of Pediatrics

11/2009

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Peer-reviewed Articles

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- 3. **Rank MA**, Park MA. Anaphylaxis to piperacillin-tazobactam despite a negative penicillin skin test. Allergy. 2007 Aug; 62(8):964-5. PMID: 17620077 DOI: 10.1111/j.1398-9995.2007.01418.x
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- 5. **Rank MA**, Li JT. Beta-blocker prescription in elderly patients with asthma. J Allergy Clin Immunol 2008 Apr; 121 (4):1061-2 Epub 2008 Mar 04 PMID: 18289652 DOI: 10.1016/j.jaci.2007.12.1163
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- * Shah KM, Rank MA, Dave SA, Oslie CL, Butterfield JH. Predicting which medication classes interfere with allergy skin testing. Allergy Asthma Proc. 2010 Nov-Dec; 31 (6):477-82 PMID: 21708059 DOI: 10.2500/aap.2010.31.3382
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