



Mayo School of Continuous Professional Development

Tackling Problematic Sinusitis: Benchtop to Better Outcomes!

March 30 – April 1, 2017 • Phoenix, Arizona

GUESTS OF HONOR

David Kennedy, MD and Heinz Stammberger, MD

DISTINGUISHED VISITING FACULTY

Larry Borish, MD	Eugene Chang, MD	Do-Yeon Cho, MD
Emily Cope, PhD	Robert Kern, MD	Hirohito Kita, MD
James (Jamie) J. Lee, PhD	Amber Luong, MD, PhD	Spencer Payne, MD
Robert Schleimer, PhD	Mark Schubert, MD, PhD	
Michael Setzen, MD	James Stankiewicz, MD	Elina Toskala, MD, PhD
Rupa Vedantam, MBBS	Sarah Wise, MD	Jane Wang, RN, MSN, FNP

COURSE DIRECTORS

Devyani Lal, MD Erin O'Brien, MD Matthew Rank, MD

A three-day symposium on sinus disease that will absolutely change the way you view and manage problematic sinusitis!



PRE-COURSE PROGRAM

Sinusitis Research: Benchtop to Better Outcomes (optional)

March 29, 2017

REGISTER NOW at <http://ce.mayo.edu/sinusitis2017>

COURSE HIGHLIGHTS

- Gain expertise in troublesome diseases such as nasal polyposis, aspirin sensitive, autoimmune and immunodeficient sinusitis
- Learn causes and management of post-surgical failures
- Learning through didactic lectures, interactive case-based discussions
- Live surgical prosections
- Unique hands-on nasal endoscopy training for medical providers



General Information

COURSE DESCRIPTION

Mayo Clinic in Arizona invites you to our 6th annual symposium on tackling challenging sinus disease. World leaders from otolaryngology-rhinology, allergy-immunology & basic sciences will address the most challenging aspects of managing sinusitis. The program includes talks and brainstorming sessions led by our world class faculty. Our goal is to share innovative management strategies synthesized by combining the latest research and evidence with the expert experience of global leaders. Interactive breakout sessions are planned to fit the needs of medical and surgical practitioners.

Join us in Phoenix, Arizona, the most beautiful place to be in Spring 2017! We will bring you the latest in applications, opinions, and recommendations of problematic sinonasal disease and share practical tips in optimizing outcomes from medical and surgical interventions.

This year we are offering an optional pre-course activity focused on the latest research in disease pathophysiology, sinus microbiome, genetics, and experimental therapeutics. Come and hear from the experts on how to achieve better outcomes for your patients.

LEARNING OBJECTIVES

Upon completion of this activity, participants should be able to:

- Describe a practical approach to subtyping chronic rhinosinusitis
- Select optimal medical treatments based on chronic rhinosinusitis subtyping
- Identify factors associated with primary sinus surgery failure
- Perform optimal revision surgeries for chronic rhinosinusitis
- Work in teams to provide continuity of care for rhinology patients
- Recognize financial and insurance barriers in caring for chronic rhinosinusitis patients

Attendance at this Mayo Clinic course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

INTENDED AUDIENCE

The course welcomes otolaryngologists, allergists, primary care and basic scientists with a strong interest in sinusitis and sinonasal disease. A three-day symposium on sinus disease that will absolutely change how you view and manage this disease!

CREDIT

Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this live activity for a maximum of 27.75 *AMA PRA Category 1 Credits*[™] (Optional Sinusitis Research activity is 4.75 credits and general session 23.00 credits). Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAFP: Application for CME credit has been filed with the American Academy of Family Physicians. **Determination of credit is pending.**

AOA: This program has been accredited by the American Osteopathic Association for 27.75 credits of AOA Category 2-A.

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

GRANTS AND EXHIBITS

At the time of this printing, a complete listing of commercial supporters (financial or in-kind) was not available. Appropriate acknowledgment will be given to all supporters at the time of the meeting. Exhibits will be available for viewing at all scheduled breaks.

MEETING LOCATION

The course will be held in the Juanita Kious Waugh Auditorium within the Mayo Clinic Education Center, 5777 East Mayo Boulevard, Phoenix, Arizona 85054.

TRAVEL

Hertz is offering a reduced daily rate for course registrants. Special rates include unlimited mileage and are subject to availability. Advance reservations are recommended; blackout dates may apply.

Visit **Hertz** online at www.hertz.com/cme2017 (CV: 03NR0012)

SuperShuttle vans offer airport transportation to and from area hotels and businesses.

General Information

To make reservations, call (800) 258-3826 or (602) 244-9000, or visit www.supershuttle.com.

RECREATION/LEISURE ACTIVITIES

Visit www.visitphoenix.com or www.experiencescottsdale.com for recreation and leisure activities.

Travel arrangements are the sole responsibility of the individual registrant.

LODGING ACCOMMODATIONS

Hotel rooms are limited. You are urged to make reservations early. A limited block of guest rooms have been reserved for attendees with a special course rate of \$256 single or double occupancy per night at Residence Inn Phoenix Desert View at Mayo Clinic. Group rates will be honored three days prior and three days following the course dates, based upon space availability. To make your reservation, call (866) 754-5927 or (480) 563-1500. And identify yourself as a part of the Mayo Clinic Sinusitis course.

To receive the special rate, you must make reservations before the room block is filled by the cut-off date or by February 28, 2017. Reservations will be taken following this date based upon room block availability, at the contracted meeting rate.

Attendees are responsible for their own reservations. The standard hotel reservation cancellation policy will apply to individual reservations unless otherwise specified.

Residence Inn Phoenix Desert View at Mayo Clinic
5665 East Mayo Boulevard • Phoenix, Arizona 85054
(866) 754-5927 or (480) 563-1500

Hotel Website: www.marriott.com/phxmh

Direct Booking Link: <http://bit.ly/SinusitisCourseRoomBlock>

Lodging arrangements are the sole responsibility of the individual registrant.

Mayo School of CPD is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

Registration Information

Visit <https://ce.mayo.edu/sinusitis2017> to register online.

The registration fee includes tuition, comprehensive course syllabus (electronic) and meals noted within the program. Although it is not Mayo School of Continuous Professional Development (CPD) policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is advised. A confirmation is provided upon receipt of payment. Please present the confirmation letter when checking in at the meeting registration desk.

CANCELLATION POLICY

If you cancel your participation in this course, your registration fee, less a \$75 administrative fee, will be refunded when written notification is received by Mayo School of CPD before March 15, 2017 (mca.cme@mayo.edu). No refunds will be made on or after March 15, 2017. Canceled registrations are non-transferable.

Mayo School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CPD must cancel or postpone this course, Mayo School of CPD will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies.

For additional information, contact:

Mayo School of Continuous Professional Development

13400 East Shea Boulevard • Scottsdale, Arizona 85259

Website: ce.mayo.edu • E-mail: mca.cme@mayo.edu • Phone number: (480) 301-4580

\$75 DISCOUNT FOR 3-4 DAY ATTENDANCE

when you register online at <https://ce.mayo.edu/sinusitis2017> by March 1, 2017

REGISTRATION FEE(S) *USD Dollars*

1 DAY – PRE-COURSE PROGRAM ONLY

“Sinusitis Research: Benchtop to Better Outcomes” (No Discounts) \$150

4 DAYS – PRE-COURSE AND TACKLING PROBLEMATIC SINUSITIS COURSE

Physicians/Scientists \$1,050 \$1,125

Residents, Physician Assistants, Nurse Practitioners, Others \$1,000 \$1,075

3 DAYS – TACKLING PROBLEMATIC SINUSITIS COURSE

Physicians/Scientists \$990 \$1,065

Residents, Physician Assistants, Nurse Practitioners, Others \$940 \$1,015

Program

Wednesday, March 29, 2017

SINUSITIS RESEARCH: BENCHTOP TO BETTER OUTCOMES

(optional – pre-registration required)

Noon **Registration** (no meal provided)

12:50 p.m. **Welcome** Devyani Lal, M.D. and Matthew Rank, M.D.

Moderators: Dr. Rank and Ms. Wang

1:00 **CRS as a Disease of the Mucosal Barrier** Robert Schleimer, Ph.D.

1:30 **Epithelial Cytokines as the Regulators of Type 2 Airway Inflammation** Hirohito Kita, M.D.

2:00 **Mucociliary Abnormalities in CRS** Do-Yeon Cho, M.D.

2:30 **Are All Eosinophils Created Equal in CRS?** James (Jamie) J. Lee, Ph.D.

3:00 **Questions and Answers**

3:15 **Break**

Moderators: Drs. Chang and O'Brien

3:45 **Prostaglandins and Leukotrienes in CRS Pathogenesis.** Larry Borish, M.D.

4:15 **Biological Subtyping of CRS** Devyani Lal, M.D. and Rohit D. Divekar, MBBS, Ph.D.

4:45 **Microbiome in CRS** Emily Cope, Ph.D.

5:15 **Protease Activity in CRS Pathogenesis** Amber Luong, M.D., Ph.D.

5:45 **Clinical Trials in CRS** Sarah Wise, M.D.

6:15 **Dinner and Discussion: Research Needs in CRS**
All Faculty (30 minute dinner/60 minute discussion)

7:45 **Adjourn**

Thursday, March 30, 2017

TACKLING PROBLEMATIC SINUSITIS: BENCHTOP TO BETTER OUTCOMES!

6:30 a.m. **Registration and Continental Breakfast**

7:25 **Welcome and Course Overview**
Drs. Michael Hinni, Devyani Lal, Erin O'Brien and Matthew Rank

CRS: AN OVERVIEW

8:00 **The Evolution of Endoscopic Sinus Surgery** Heinz Stammberger, M.D.

8:30 **Why CRS Festers and Becomes Problematic** Devyani Lal, M.D.

9:00 **An Overview of CRS Pathophysiology for the Clinician** Robert Schleimer, Ph.D.

9:30 **Clinical Subtypes of Recalcitrant CRS** Larry Borish, M.D.

10:00 **Questions and Answers**

10:15 **Break**

BIOLOGICALLY RECALCITRANT CRS

10:45 **Pediatric Sinusitis and CF and CFTR-mediated CRS** Eugene Chang, M.D.

11:15 **Fungal Sinusitis Manifestations and Management in a Resource Limited Setting** Rupa Vedantam, MBBS

11:45 **Testing for Recalcitrant Subtypes: AERD, AFS, Immunodeficiency, etc.** Rohit D. Divekar, MBBS, Ph.D.

12:15 p.m. **Panel Discussion on Diagnostic Challenges and Best Approaches to Subtyping**

Moderators: Drs. O'Brien and Rank
Panelists: Drs. Chang Cho, Luong, Stammberger, and Wise

1:00 **Lunch**

DIAGNOSTIC TESTING

2:00 **Best Practices with CT Imaging** Robert Kern, M.D.

2:30 **Radiographic Image Interpretation in Sinus Disease.** Joseph Hoxworth, M.D.

3:00 **Break**

IMPROVE YOUR PRACTICE EFFICIENCY

3:30 **Running a Rhinology Continuity Clinic.** Jane Wang, RN, MSN, FNP

4:00 **CRS-Quality Reporting, Pay for Performance and its Financial Impact on Society** Michael Setzen, M.D.

4:30 **Quality, Billing, Coding and other Practical Matters for Caring for Problematic Chronic Rhinosinusitis** **Moderator:** Dr. Payne
Panelists: Drs. Haegen, Rehl, Setzen, and Stankiewicz

5:15 **Adjourn**

Friday, March 31, 2017

6:30 a.m. **Continental Breakfast**

7:20 **Announcements** Drs. Lal and Rank

OPTIMAL MEDICAL THERAPY

7:30 **Chronic Rhinosinusitis: the Rationale for Current Treatments** Robert Kern, M.D.

Program

8:00	The Unified Airway: Allergic Rhinitis, Sinusitis and Asthma . . . Elina Toskala, M.D., Ph.D.
8:30	AERD Larry Borish, M.D.
9:00	AFS Medical Management Mark Schubert, M.D., Ph.D.
9:30	Management of Far Advanced AFS Rupa Vedantam, MBBS
10:00	Break
10:30	The Role of Biologics in CRS John Hagan, M.D.
11:00	Allergy Management in Recalcitrant CRS Sarah Wise, M.D.
11:30	Ask the Experts Questions and Answers Session Moderators: Drs. Luong and Rank Panelists: Drs. Borish, Hagan, Payne, Schleimer, Schubert, and Setzen
12:15 p.m.	Lunch

BREAKOUT SESSIONS (Interactive session between faculty and participants)

A: OPTIMAL SINUS SURGERY

1:00 p.m.	Prosection Optimize Outcomes, Minimize and Manage Complications Devyani Lal, M.D.
	Commentary and Moderation: Drs. Kennedy, Stammberger, Stankiewicz, and Toskala
3:00	Break
3:30	Tackling Problematic CRS: My Approach and Differential Diagnostic Considerations David Kennedy, M.D.
4:00	Managing Complications of ESS James Stankiewicz, M.D.
4:30	New Features in Navigational Surgery Heinz Stammberger, M.D.
5:00	Adjourn

MODULE A

B: SELECTED TOPICS FOR NON-SURGICAL CLINICIANS MANAGING CRS

1:00 p.m.	Asthma Management in CRS Patients Matthew Rank, M.D.
1:30	Corticosteroids for CRS: Type, Dose, Route, Monitoring, and Safety John Hagan, M.D.
2:00	Aspirin Desensitization Workshop: Patient Selection, Protocol Choices, and Management of Complications Kip Teaford, M.D.
3:00	Break
3:30	The Benefits and Challenges of a Combined ENT-Allergy Sinus Clinic Matthew Rank, M.D.
4:00	Nasal Endoscopy Workshop Faculty: Do-Yeon Cho, M.D.; John Hagan, M.D.; Tim Haegen, M.D.; Janalee Stokken, M.D.; and Jane Wang, RN, MSN, FNP
5:00	Adjourn

MODULE B

Saturday, April 1, 2017

THE POTPOURRI OF PROBLEMATIC SINUS DISEASE

Moderators: Drs. Cho and O'Brien

8:00	Sinus Headache Management ENT Perspective Devyani Lal, M.D.
8:30	Sinus Headache Management Neurology Perspective Rashmi Halker Singh, M.D.
9:00	The Empty Nose Syndrome Spencer Payne, M.D.
9:30	Management of CSF Leaks Heinz Stammberger, M.D.
10:00	Concurrent Rhinoplasty/ESS Michael Setzen, M.D.
10:30	Break
11:00	Simplifying Frontal Sinus Surgery Devyani Lal, M.D.
11:30	Frontal Sinus Surgery: Nuances in Procedure Selection and Postop Care Erin O'Brien, M.D.
Noon	Postop Debridement Tips Janalee Stokken, M.D.
12:30 p.m.	Practical Tips in Postop Medical Management: Topicals to Biologics Amber Luong, M.D., Ph.D.
1:00	Lunch

Moderators: Dr. Rank and Ms. Wang

1:45	How to Manage Surgically Recalcitrant Sinusitis Moderator: Dr. Toskala Panelists: Drs. Borish, Kennedy, Kern, Stammberger, Vedantam, and Wise
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THE WORLD'S MOST EXPERIENCED SURGEONS GIVE YOU THE BEST TIPS

2:45	Tips on Revision Surgery and IP Management David Kennedy, M.D.
3:15	The Perfect Dissection Heinz Stammberger, M.D.
3:45	Post Test
4:15	Questions and Answers
4:30	Adjourn

Program schedule is subject to change without notice.

Additional Otolaryngology 2017 CME Activities

For Surgeons and
Primary Care Specialists!

**10th Annual Multidisciplinary Transoral Surgery
for Head & Neck Cancer**
February 22-25, 2017

**4th Annual Southwest Laryngology Conference:
Focus on Complex Cases**
Live and Webcast offered
April 7-8, 2017

**For additional Mayo Clinic CME Activities,
visit <https://ce.mayo.edu>**

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