



**putting the
pieces together
in headache medicine**



**SCOTTSDALE
HEADACHE SYMPOSIUM®**

JW MARRIOTT CAMELBACK INN, SCOTTSDALE ARIZONA
NOVEMBER 17-20, 2022

2022 Scottsdale Headache Symposium® Program Agenda (all times Arizona)

Thursday, November 17, 2022

6:30 am – 7:00 am

Sunrise Yoga

7:00 am – 8:00 am

Committee and Section Meetings

8:00 am – 11:00 am

**Pre-meeting Courses / Special Interest Section
Symposium/Regional Society***

**Pre-course sessions will be in-person only; recordings will be available virtually within 48 hours unless otherwise noted.*

**Career Development for Headache Medicine Specialists –
Opportunities for Collaboration with the American
Academy of Neurology**

*Moderator: Paul G. Mathew, MD, DNBPAS, FAAN, FAHS
Vice-Chair, AAN Headache & Face Pain Section*

8:00 am - 8:05 am

Welcome & Introduction
Paul G. Mathew, MD

8:05 am - 8:25 am

Headache Medicine as a Field: Where Are We Now?
Noah Rosen, MD, FAHS

8:25 am - 8:40 am

Diversity Leadership
Hope L. O'Brien, MD, MBA, FAHS

8:40 am - 8:55 am

Women Leading in Neurology
Amy Hessler, DO

8:55 am - 9:10 am

Palutucci Advocacy and Leadership Forum
David Watson, MD

9:10 am - 9:25 am	Neurology on the Hill Charles Flippen, MD
9:25 am - 9:40 am	Transforming Leaders Program Roderick Spears, MD, FAHS
9:40 am - 9:55 am	Emerging Leaders Bert Vargas, MD, FAHS
9:55 am - 10:10 am:	Practice Leadership Brad C. Klein, MD, MBA
10:10 am - 11:00 am:	Panel Discussion with all speakers
8:00 am – 11:00 am	Using Mobile Health Applications to Expand Access to Behavioral, Complementary, and Integrative Headache Interventions: Advances and Practical Application <i>Moderators: Niushen Zhang, MD, FAHS and Michelle Clementi, PhD</i>
8:00 am – 8:05 am	Introduction Niushen Zhang, MD, FAHS and Michelle Clementi, PhD
8:05 am – 8:35 am	Overview of Smartphone Apps for Headache and How Biofeedback Sensors and Relaxation Apps Can Help with Clinically Important Outcomes Mia Minen, MD, MPH, FAHS
8:35 am – 9:05 am	Smartphone-Based Behavioral Headache Therapies Cathleen Turnage, PsyD
9:05 am – 9:35 am	Mindfulness & Online Apps: Opportunities and Challenges Rebecca E. Wells, MD, MPH, FAHS
9:35 am – 10:05 am	How Providers Can Vet Mobile Health Apps and Help Patients Select Appropriate Apps Emily Law, PhD
10:05 am - 10:35 am	Small Group Experiential Learning Emily Law, PhD
10:35 am – 11:00 am	Panel Discussion and Q&A

8:00 am – 12:00 pm

Cadaver Course: The Brainstem Revisited*

Moderators: Rashmi Halker Singh, MD, FAHS and Steven Bender, DDS, FAHS

**Separate registration required; being held offsite at the Mayo Clinic Arizona and will not be recorded.*

8:00 am

Buses Depart

8:35 am – 8:55 am

Sign-in/Complete Paperwork

8:55 am – 9:15 am

Migraine Pathophysiology Review: The Role of the Brainstem

William Renthal, MD, PhD, FAHS

9:15 am – 9:35 am

Role of CGRP in the Cerebellum

Levi Sowers, PhD

9:35 am – 9:40 am

Transition to Lab

9:40 am – 11:00 am

Station Rotation

Vascular Review (Circle of Willis)

Natalie Langley, PhD

Sagittal Cut of the Brainstem/Base of Brain and Anatomy Identification

William Renthal, MD, PhD, FAHS

Axial Cuts of the Brainstem/Base of Brain and Anatomy Identification

Levi Sowers, PhD

Neuroradiology Correlation of Brainstem/Base of Brain

Tanya Rath, MD

11:00 am – 12:00 pm

Conclusion and Buses Depart

8:00 am – 2:00 pm

Pre-Meeting Course: Headache 101

Moderators: Noah Rosen, MD, FAHS and Carrie Dougherty, MD, FAHS

8:00 am – 8:05 am

Introduction

Noah Rosen, MD, FAHS and Carrie Dougherty, MD, FAHS

8:05 am – 8:40 am	Epidemiology and Pathophysiology of Headache Amynah Pradhan, PhD
8:40 am – 9:10 am	Diagnosis of Migraine Kathleen Digre, MD, FAHS
9:10 am – 9:50 am	Acute Treatment of Migraine Deborah Friedman, MD, MPH, FAHS
9:50 am – 10:30 am	Migraine Prevention Susan Hutchinson, MD
10:30 am - 11:05 am	Diagnosis and Treatment of TACs Claire Sandoe, MD, MS
11:05 am – 11:20 am	Q&A Panel Discussion
11:20 am – 12:05 pm	Lunch
12:05 pm – 12:40 pm	Pediatric Headache Ana Marissa Lagman-Bartolome, MD, FAHS
12:40 pm – 1:10 pm	Behavioral Strategies Stephen Baskin, PhD
1:10 pm – 1:45 pm	Secondary Headaches Not to Miss Andrea Harriott, MD
1:45 pm – 2:00 pm	Q&A Panel Discussion
11:00 am – 2:00 pm	Committee and Section Meetings
12:00 pm – 4:30 pm	Advanced Course: Neuropharmacology of Migraine <i>Moderators: Stephen D. Silberstein, MD and Andrew F. Russo, PhD</i>
12:00 pm - 12:05 pm	Introductions

12:05 pm - 12:45 pm	Basic Pharmacology Stephen D. Silberstein, MD
12:45 pm – 1:25 pm	CGRP Receptors Andrew F. Russo, PhD
1:25 pm – 2:05 pm	Biased Agonism Graham Ladds, PhD
2:05pm – 2:30 pm	Break
2:30 pm – 3:10 pm	Intracellular Trafficking & Endosomal Signaling Dane Jensen, PhD
3:10 pm – 3:50 pm	Migraine Signaling: CGRP vs. PACAP Sarah Christensen, MD
3:50 pm – 4:30 pm	Discussion and Q&A
2:00 pm – 5:00 pm	Pre-Meeting Course: The Bridge
2:00 pm – 2:20 pm	Welcome/Introduction Annika Ehrlich, NP
2:20 pm – 2:40 pm	Migraine Epidemiology, Risk Factors, and Diagnosis Alicia Duyvejonck, NP
2:40 pm – 3:00 pm	Patho Physiology Laura Xanders, NP
3:00 pm – 3:20 pm	Acute Management Karen Williams, DNP
3:20 pm – 3:40 pm	Prevention Management Karissa Secora, PA
3:40 pm – 4:00 pm	Behavioral to Procedural Management Laurel Short, DNP
4:00 pm – 4:20 pm	Women and Migraine Management Annika Ehrlich, NP
4:20 pm – 4:40 pm	Pediatric Migraine Management Lara Koral, APRN

4:40 pm – 5:00 pm	Case Discussion Annika Ehrlich, NP
5:00 pm – 6:00 pm	Welcome and Exhibitor Reception
6:00 pm – 7:00 pm	Women in Headache Medicine Reception
6:00 pm – 7:00 pm	New Member/Fellow/Trainee Reception
7:00 pm – 8:00 pm	Industry-supported Event* <i>*Supported by Medscape, LLC. Eligible for CME Credit via Sponsor.</i> <i>Moderator: Rashmi Halker Singh, MD, FAHS, FAAN</i>
	Patient and Clinician Perspectives in the Use of Modern Therapies for the Management of Migraine Dawn C. Buse, PhD, FAHS Amaal Starling, MD, FAHS, FAAN

Friday, November 18, 2022

6:30 am – 7:00 am	Sunrise Yoga
6:30 am – 7:30 am	Miles for Migraine Fun Run* <i>*Separate registration required. Register here!</i>
7:00 am – 8:00 am	Continental Breakfast and Exhibits
8:00 am – 8:15 am	Welcome/Opening Remarks
8:15 am - 10:15 am	Plenary I: What's New in.... <i>Moderators: Todd J. Schwedt, MD, MS, FAHS and Deborah Friedman, MD, MPH, FAHS</i>
8:15 am – 8:30 am	Pathophysiology Andrew C. Charles, MD, FAHS
8:30 am – 8:45 am	Acute Migraine Treatment Rashmi Halker Singh, MD, FAHS
8:45 am – 9:00 am	Migraine Prevention Michael M. Marmura, MD, FAHS, FAAN

9:00 am – 9:15 am	Cluster and TACS Peter J. Goadsby, MD, PhD, FAHS
9:15 am – 9:30 am	Trigeminal Autonomic Cephalalgias/Neuralgia in Children Christina L. Szperka, MD, FAHS
9:30 am – 9:45 am	Integrative Treatments Elizabeth Seng, PhD, FAHS
9:45 am – 10:15 am	Q&A Panel Discussion
10:15 am - 10:30 am	Refreshment Break & Exhibits
10:30 am – 12:30 pm	Plenary II: Beyond Primary Headache <i>Moderators: Elizabeth W. Loder, MD, MPH and Christine Lay, MD, FAHS</i>
10: 30 am – 10:55 am	COVID-19 Matthew S. Robbins, MD, FAHS
10:55 am – 11:20 am	Post-traumatic Stress Disorder Gretchen E. Tietjan, MD
11:20 am – 11:45 am	Ehlers Danlos Syndrome and Cranio-cervical Instability Vincent T. Martin, MD
11:45 am – 12:10 pm	Postural Orthostatic Tachycardia Syndrome (POTS) Christopher Oakley, MD
12:10 pm – 12:30 pm	Q&A Panel Discussion
12:30 pm – 1:45 pm	Lunch/Exhibits (available for purchase)
12:30 pm – 1:45 pm	Committee and Section Meetings
12:30 pm – 1:30 pm	Industry-Supported Event* <i>*Supported by Lundbeck, LLC. Not Eligible for CME Credit.</i>
	Your Patient; Your Partner: Individualizing Care for Patients Caught in a Cycle of Worsening Migraine. <i>Prevention Strategies for High Frequency, Disabling Migraine with High Acute Medication Use.</i> Amaal Starling, MD, FAHS, FAAN Michael J. Marmura, MD

Robert Cowan, MD, FAAN, FAHS

1:45 pm – 2:15 pm

Frontiers in Headache Research Award Presentation and Lectures

Moderator: Jessica Ailani, MD, FAHS

2:15 pm - 2:45 pm

Plenary III: Steven B. Graff-Radford Orofacial Pain and Headache Lectureship

Moderator: Amrittej Virk, DMD, BDS and Steven Bender, DDS, FAHS

Translational Perspectives in Orofacial Pain and Headache: Strengthening the Bond Between our Fields
Marcela Romero Reyes, DDS, PhD, FAHS

2:45 pm - 4:45 pm

Plenary IV: By Popular Demand! Peace, Love, and Rock and Roll: Back to the Future in Headache Treatment

Moderators: Merle Diamond, MD and Rashmi Halker Singh, MD, FAHS

2:45 pm – 3:10 pm

Cannabis
Nathaniel Schuster, MD

3:10 pm – 3:35 pm

Psychedelics
Emmanuelle Schindler, MD, PhD

3:35 pm – 4:00 pm

Medication Overuse Headache
Todd Schwedt, MD, MS, FAHS

4:00 pm – 4:25 pm

Treatment of Refractory Cases
Stephanie J. Nahas, MD, MEd, FAHS

4:25 pm – 4:45 pm

Q&A Panel Discussion

4:45 pm – 6:00 pm

Exhibits and Refreshment Break

4:45 pm – 6:00 pm

Committee and Section Meetings

6:00 pm – 6:30 pm

Special Interest Section Fair

6:30 pm – 7:00 pm

Town Hall

7:00 pm – 8:00 pm

Industry-Supported Event*

**Supported by Pfizer. Not Eligible for CME Credit.*

Treat and Prevent Migraines with All-in-One
Nurtec® ODT (Rimegepant)

Saturday, November 19, 2022

7:00 am - 8:00 am

Continental Breakfast and Exhibits

8:00 am – 10:00 am

Plenary V: They're Not Little Adults: Pediatric Headache
Moderators: Hope O'Brien, MD, MBA, FAHS, Christina L. Szperka, MD, FAHS and Christopher Oakley, MD

8:00 am – 8:20 am

Migraine Across Development: Young Child to Young Adult
Chaouki K. Khoury, MD, MS

8:20 am – 8:45 am

Current Treatment Guidelines: Acute and Preventive
Serena L. Orr, MD, MS

8:45 am – 9:05 am

Cognitive Behavioral Therapy, Technology, and Access:
Using an Evidence-based Treatment
Scott W. Powers, PhD, FAHS

9:05 am – 9:25 am

Medication Overuse Headache and Continuous Headache
Amy Gelfand, MD, MAS, FAHS

9:25 am – 9:40 am

COVID and Headache in Youth
Christina L. Szperka, MD, FAHS

9:40 am – 10:00 am

Moderator Summary/Q&A Panel Discussion

10:00 am – 10:15 am

Refreshments and Exhibits

10:15 am – 12:00 pm

Plenary VI: Practice Management
Moderators: Susan Hutchinson, MD and Elizabeth Seng, PhD, FAHS

10:15 am – 10:35 am

Prior Authorizations
Raissa Villanueva, MD, MPH

10:35 am – 11:15 am

Office Safety – Emergent and Non-Emergent
Deborah Friedman, MD, MPH, FAHS and Jessica Ailani, MD, FAHS

11:15 am – 11:30 am

Who's in the Room with You? Consent and Privacy
Brad C. Klein, MD

11:30 am – 11:45 am	Handling Expectations While Maintaining Your Mental Health Randolph W. Evans, MD
11:45 am – 12:00 pm	Moderator Summary/Q&A Panel Discussion
12:00 pm – 12:15 pm	Migraine Moment Short Film Contest: 1st Place “Members’ Choice” Winning Video Viewing <i>Moderators: A. Laine Green, MD, MSc, FRCPC, FAHS and Christine Lay, MD, FAHS</i>
12:15 pm – 12:45 pm	Plenary VII: Panel Discussion: Medication Overuse Headache: Controversies and Approaches to Management <i>Moderator: Christine Lay, MD, FAHS</i> Panelists: Todd J. Schwedt, MD, MS, FAHS, Matthew S. Robbins, MD, FAHS, and Kathleen Digre, MD, FAHS
12:45 pm – 1:15 pm	Women’s Health Science Award <i>Moderators: Rashmi Halker Singh, MD, FAHS, Huma Sheikh, MD, and Deena Kuruvilla, MD</i> The Trouble with Women... E. Anne MacGregor, MBBS, MSc, MD
1:15 pm – 2:15 pm	Lunch (available for purchase) and Exhibits
1:15 pm – 2:15 pm	Committee and Section Meetings
1:15 pm – 2:15 pm	Industry-Supported Event* <i>*Supported by Collegium Pharmaceutical. Not Eligible for CME Credit.</i> An Oral Formulation for the Acute Treatment of Migraine With or Without Aura
2:15 pm - 3:45 pm	Concurrent Sessions
2:15 pm – 3:45 pm	CS1: Skills Training <i>Moderators: Wade Cooper, DO, FAHS and Scott W. Powers, PhD, FAHS</i>

2:15 pm – 2:30 pm	OnabotulinumtoxinA Andrew Blumenfeld, MD
2:30 pm – 2:45 pm	Nerve Blocks, Trigger Point Injection (Safety) Carrie Dougherty, MD, FAHS
2:45 pm – 3:45 pm	Hands-On Training Faculty: Annika Ehrlich, MS, NP, RN, Christina L. Szperka, MD, FAHS, Hope L. O'Brien, MBA, FAHS, Larry Charleston IV, MD, MS, FAHS, Jack D. Schim, MD, Claire Sandoe, MD, MS, Ana Marissa Lagman-Bartolome, MD, Cynthia E. Armand, MD, Andrew Blumenfeld, MD, and Carrie Dougherty, MD, FAHS
2:15 pm – 3:45 pm	CS2: Headache 202: Beyond the Basics for Advanced Clinicians <i>Moderators: Rashmi Halker Singh, MD, FAHS and Jennifer Robblee, MD, MSc</i>
2:15 pm – 2:40 pm	Chronic Migraine Rebecca Burch, MD, FAHS
2:40 pm – 3:10 pm	Managing Headache in Patients with Chronic Pain Meredith Barad, MD and Elizabeth Seng, PhD, FAHS
3:10 pm – 3:30 pm	Differentiating Facial Pain Disorders From TACS Tara Renton, PhD
3:30 pm – 3:45 pm	Q&A
2:15 pm – 4:05 pm	CS3: CSF Disorders Case-Based Discussions <i>Moderators: Stephanie J. Nahas, MD, MEd, FAHS and Jill Rau, MD, PhD, MPsych, FRCPC, FAHS</i>
2:15 pm – 2:45 pm	Introduction to High and Low Pressure Disorders Kathleen Digre, MD, FAHS and Wouter Schievink, MD
2:40 pm – 3:00 pm	“MRI-IIH” Deborah Friedman, MD, MPH, FAHS
3:00 pm – 3:20 pm	Suspect SIH – Let’s Find the Leak Linda G. Leithe, MD
3:20 pm – 3:40 pm	IIH with Loss of Vision

	Marie Di Nome, MD
3:40 pm – 4:00 pm	Pediatric Case – Is It High or Low Pressure? Chaouki K. Khoury, MD, MS
4:05 pm - 4:30 pm	Refreshments and Exhibits
4:30 pm – 6:00 pm	Free Time
6:00 pm – 7:00 pm	Industry-Supported Event* <i>*Supported by Lilly USA, LLC. Not Eligible for CME Credit.</i>
	Close the Gap: The Brain Game with Impact! Jessica Ailani, MD, FAHS Larry Charleston, IV, MD, MSc, FAHS Stephanie J. Nahas, MD, MEd, FAHS, FANN Wade Cooper, DO, FAHS
7:00 pm – 8:30 pm	Wine and Cheese Reception

Sunday, November 20, 2022

7:00 am - 8:00 am	Continental Breakfast
7:30 am - 8:30 am	Case Presentations <i>Moderator: Peter J. Goadsby, MD, PhD, FAHS</i>
	Faculty: Marcy Yonker, MD, Amy Gelfand, MD, MAS, FAHS, and Rebecca Wells, MD, MPH, FAHS and Robert P. Cowan, MD, FAHS
8:30 am – 10:00 am	Science <i>Moderators: Arynah Pradhan, PhD and Todd J. Schwedt, MD, MS, FAHS</i>
8:30 am – 8:50 am	Role of CGRP in the Cerebellum Levi Sowers, PhD
8:50 am – 9:10 am	Transcriptomic Analysis and Headache Medicine William Renthal, MD, PhD, FAHS
9:10 am – 9:30 am	Blood Brain Barrier Tally Largent Milnes, PhD

9:30 am – 9:50 am	Sphingosine-1-Phosphate Receptor as a Therapeutic Target for Migraine Simon Akerman, PhD
9:50 am – 10:00 am	Q&A
8:30 am – 10:00 am	Advocacy: A Brief Update and Motivating Your Patients Advocating on Their Own Behalf <i>Moderator: Amaal Starling, MD, MS, FAHS</i>
8:30 am – 8:50 am	Underserved Jessica Kiarashi, MD
8:50 am – 9:10 am	AMF Update Christine Lay, MD, FAHS
9:10 am – 9:30 am	Patient Carrie Dougherty, MD, FAHS
9:30 am – 9:50 am	ADHA Christopher H. Gottschalk, MD, FAHS
9:50 am – 10:00 am	Q&A
8:45 am – 10:00 am	Journal Club <i>Moderators: Rashmi Halker Singh, MD, FAHS and Sarah Bobker, BA, MD</i>
8:45 am – 9:05 am	Year in Review Amy Gelfand, MD, MAS, FAHS
9:05 am – 9:25 am	Other Highlights in Headache Medicine Literature A. Laine Green, MD, MSc, FRCPC, FAHS
9:25 am – 9:45 am	Diversity, Equity and Inclusion in the Editorial Process Larry Charleston IV, MD, MS, FAHS
9:45 am – 10:00 am	Q&A
10:00 am	Adjourn