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ScottsdaleHeadache

S Y M P O S I U M[®]



AMERICAN
HEADACHE
SOCIETY[®]

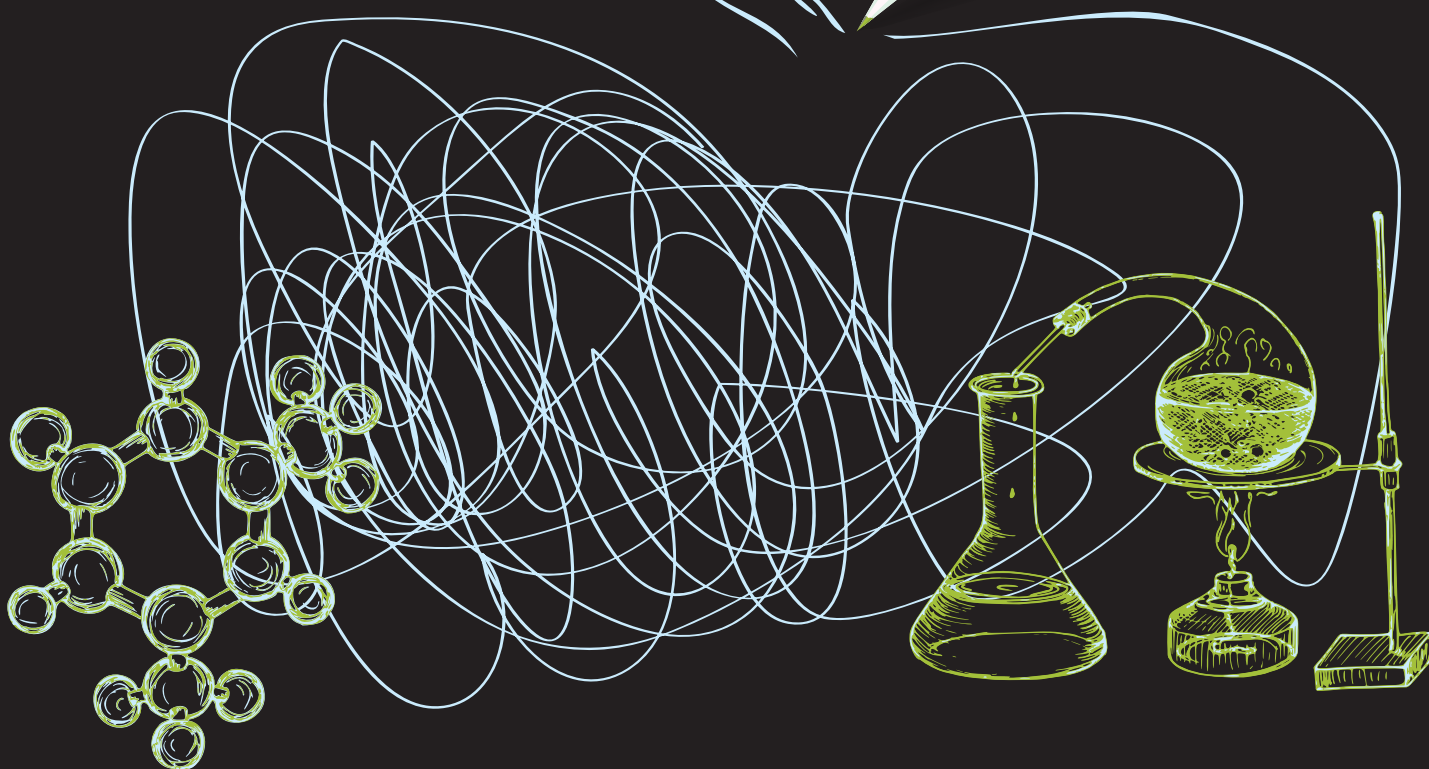
AAFP Prescribed Credits: 20 Prescribed Credits • AMA PRA Category 1 Credits[™]: 24.25

FINAL PROGRAM

57th Annual Scientific Meeting



June
18-21
2015



Drawing Upon Headache Research

AMERICAN HEADACHE SOCIETY • GRAND HYATT WASHINGTON • WASHINGTON, DC



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welcome

Dear Colleagues,

Welcome to the 2014 Scottsdale Headache Symposium® and to Scottsdale, Arizona!

I would like to extend my heartfelt thanks to the Scottsdale Headache Symposium® Program Committee, Drs. K.C. Brennan, Juline Bryson, Rashmi Halker, Scott Litin, and Rebecca Wells, who under the direction of our Chairperson, Dr. Sheena Aurora, crafted a wonderful educational event. Based on your feedback, we are continuing the successful case-based format for much of the symposium. It is our hope you will leave Scottsdale with a better understanding of Headache Medicine and new tools to help your patients with migraine and related disorders.

The 2014 symposium offers various opportunities to further develop the core competencies and skills that characterize the members of our Society. On Thursday there are Pre- Courses from several of our Special Interest Sections as well as a special session, Headache 101, for those new to or just beginning in the field of Headache Medicine. Friday begins with a novel plenary session, “Head Talks”, TED-like presentations that will focus on Epidemiology, Pathophysiology, Acute and Preventive Treatments, procedural workshops and a debate focusing on Venous Sinus Stenting for ITH. I am sure you will find the faculty, topics, and information to be top notch.

On behalf of the Board of Directors, I invite each of you to join us for our Town Hall Meeting on Friday afternoon. We believe that an open dialogue between the membership and the Board is essential. This is your opportunity to promote new ideas, suggest improvements, and network with your fellow AHS members.

Thank you for your support of the American Headache Society®. I hope you find the Scottsdale Headache Symposium® to be instructive and thought-provoking.

Sincerely,

Lawrence C. Newman MD, FAHS
PRESIDENT



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2014

SCOTTSDALE HEADACHE SYMPOSIUM

The **Scottsdale Headache Symposium®** continues to be a successful venue for providing practical, clinical, evidence-based information on the diagnosis, management, and treatment of headache patients. Education is presented in didactic, case-based, evidence-based, panel, and demonstrative formats.

AHS celebrates over 55 years of leading and serving the headache community.

Educational Objectives

At the completion of this Program, the attendee will be better able to:

- Identify comorbidities, i.e., obesity in patients with migraine.
- Develop treatment plans for patients who have specific comorbid conditions in migraine.
- Interpret the risks and benefits of complementary and alternative medications for the treatment of primary headache disorders.
- Appraise the data on venous stenting in patients with raised intracranial pressure.
- Evaluate patients with vascular risk factors and migraine.

Who Should Attend?

This symposium is designed for general practitioners, internists, pediatricians, neurologists, anesthesiologists, dentists, physical therapists, psychologists, nurse practitioners, physician assistants, nurses, and other health professional who treat headache.

About the American Headache Society®

The American Headache Society® (AHS) is a professional society of healthcare providers dedicated to the study and treatment of headache and face pain. The Society's objectives are to promote the exchange of information and ideas concerning the causes and treatments of headache and related painful disorders. Educating physicians, health professionals and the public, and encouraging scientific research are the primary functions of this organization. AHS activities include an annual scientific meeting, a comprehensive headache symposium, regional symposia for neurologists and family practice physicians, publication of the journal *Headache* and sponsorship of the American Migraine Foundation (www.americanmigrainefoundation.org) and the 36 Million Migraine Campaign (www.36MillionMigraine.org) and the Fred Sheftell, MD, Education Center (ACHE) (www.achenet.org).

cme Mission Statement

The provision of quality CME is a primary mission of the American Headache Society®. The Society's educational objectives are to continue to improve the knowledge, skills, and professional performance of physicians, psychologists, and other health professionals in the care of patients with head, neck, and orofacial pain by:

- Providing a forum for presentation of free scientific communication on research and clinical practice.
- Providing educational symposia.
- Improving education in medical schools and residency programs.
- Identifying and developing new educational initiatives.
- Supporting educational programs directed to people with head, neck, and orofacial pain.
- Maintaining strict adherence to ACCME guidelines.
- Developing education activities and tools that are designed and then evaluated for their role in improving the learners' competence, performance, and the overall quality and safety of the care they give to individuals suffering from head, neck, and orofacial pain.



wednesday

November 19, 2014

12:30 pm – 6:00 pm

PEACE PIPE

Advanced Pre-Course

NEUROMODULATION FOR HEADACHE: BIOLOGICAL RATIONALE AND CLINICAL EFFICACY

Moderators: Stephen D. Silberstein, MD, FAHS and David W. Dodick, MD, FAHS

12:30 pm – 12:35 pm

Introduction

Stephen D. Silberstein, MD, FAHS and David W. Dodick, MD, FAHS

12:35 pm – 1:15 pm

Transcranial Magnetic Stimulation (TMS) – Basic Principles and Application
Tony Barker, PhD

At the conclusion of this presentation attendees should be better able to:

- Understand the basic principles of TMS and its development as a practical technique
- Understand the effect of coil geometry and anatomy on the site of stimulation
- Understand the intrinsic limitations of the technique along with its advantages and disadvantages

Physician core competency(s) relating to this presentation is/are: Medical Knowledge

1:15 pm – 2:10 pm

Transcranial Magnetic Stimulation of the Brain
Eric Wassermann, MD

At the conclusion of this presentation, attendees should be better able to:

- Discuss the history, basic principles, and uses of transcranial magnetic stimulation.
- Evaluate data from transcranial stimulation studies.
- Develop new applications for transcranial brain stimulation in headache and other disorders.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

2:10 pm – 2:50 pm

Peripheral Neuromodulation (VNS, GON, SPG): Biological Rationale and Mechanism
Michael Oshinsky, PhD

At the conclusion of this presentation, attendees should be better able to:

- Describe preclinical evidence which supports the use of neuromodulation technologies/devices for the treatment of primary headache disorders.
- Assess the current data for the treatment of trigeminal allodynia with peripheral nerve stimulation.
- Identify translational aspects of rodent studies of peripheral nerve stimulation.
- Evaluate different mechanisms of action of different peripheral nerve stimulation strategies for the treatment of trigeminal allodynia.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

2:50 pm – 3:30 pm

Transcranial Neuromodulation (sTMS and direct current): Safety and Efficacy
Peter J. Goadsby, MD, PhD, FAHS

At the completion of this presentation, attendees should be better able to:

- To be familiar with the clinical data on the use of sTMS in migraine;
- To be familiar with the clinical data on the use of tDCS in migraine;
- To begin to consider how, or if, sTMS, or tDCS, or both, may be incorporated into clinical practice.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

wednesday

November 19, 2014



3:30 pm – 3:50 pm

Break

3:50 pm – 4:30 pm

Vagal Nerve Stimulation (VNS): Safety and Efficacy
Stephen D. Silberstein, MD, FAHS

At the completion of this presentation, attendees should be better able to:

- Describe the benefit of Vagal nerve stimulation for headache.
- Differentiate evidence for the safety and efficacy of VNS for migraine.
- Identify evidence for the safety and efficacy of VNS for cluster headache.
- Assess an approach to patient selection.

Physician core competency(s) related to this presentation is/are:

4:30 pm – 5:10 pm

Sphenopalatine Ganglion Stimulation (SPG): Mechanism, Safety, and Efficacy
Stewart J. Tepper, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Define the pivotal role of the sphenopalatine ganglion in the pathophysiology of migraine and cluster.
- Describe the current uses and potential for sphenopalatine ganglion stimulation in neuromodulation of migraine and cluster.
- Identify and comprehend the US 2014 regulatory trial on sphenopalatine ganglion stimulation for cluster headache.
- Appraise the current level of evidence for efficacy and safety based on studies on sphenopalatine ganglion stimulation for cluster headache.
- Cite current availability of sphenopalatine ganglion stimulation for cluster headache in the European Union versus regulatory status in the US, due to differences in the regulatory and practice systems.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Systems-based Practice

5:10 pm – 5:50 pm

Transcutaneous and Percutaneous Neurostimulation (ONS)
Richard B. Lipton, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Discuss the range of available transcutaneous and percutaneous stimulation devices.
- Select headache patients who are good candidates for transcutaneous electrical nerve stimulation (TENS), occipital nerve stimulation (ONS) and supraorbital nerve stimulation.
- Critically evaluate evidence for safety and efficacy of available devices.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

5:50 pm – 6:00 pm

Closing Remarks



SYMPOSIUM **agenda**



thursday

November 20, 2014

2:00 pm – 5:00 pm

SALONS H-M-N

Special Interest Section Symposia I

COMPREHENSIVE INPATIENT MANAGEMENT OF HEADACHE

Presented by the Inpatient and Emergency Headache Section

Moderator: Stephanie Nahas, MD, FAHS

2:00 pm – 2:05 pm

Introduction
Stephanie Nahas, MD, FAHS

2:05 pm – 2:30 pm

When to Consider Inpatient Treatment: The “Refractory” Headache Patient
Larry Charleston IV, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Identify key components of the headache history taking and examination.
- Become aware some common options available for psychological and quality of life (functional/disability) screening.
- Understand reasonable rationale and justifications for hospitalization and general principles for urgent/emergent and non-emergent admission criteria.
- Explore the elements of a plan and palliative efforts for non-emergent patients.
- Examine the role of patient education in this process.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Professionalism, Systems-based Practice

2:30 pm – 2:55 pm

The Psychological Assessment in Headache
Steve M. Baskin, PhD



SYMPOSIUM agenda

thursday

November 20, 2014

At the conclusion of this presentation, attendees should be better able to:

- Outline the comprehensive behavioral/psychological assessment of the complicated headache patient.
- Explain the different factors that comprise the assessment of adherence to treatment in the complicated headache patient.
- Describe the evaluation of psychiatric comorbidities and personality issues in the headache patient.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills

2:55 pm – 3:20 pm

Inpatient Medication Treatment of Migraine and Daily Headache
Priyanka Chaudhry, MD

At the conclusion of this presentation, attendees should be better able to:

- Develop individualized treatment plan for migraine patients.
- Recognize the importance of non-pharmacological approach to inpatient headache treatment.
- Identify the side effects and complications of most commonly used inpatient headache medications.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Interpersonal and Communication Skills, Professionalism

3:20 pm – 3:45 pm

Break

3:45 pm – 4:10 pm

Opioid, Barbiturate and Other Medication Misuse and Overuse in Headache
Alvin E. Lake III, PhD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Distinguish between 2 types of medication overuse headache (MOH): Type 1 (simple) and Type 2 (complex), and understand the scientific evidence for the distinction and its clinical implications.
- Assess and manage behavioral issues underlying both types of MOH.
- Use effective outpatient and inpatient strategies for managing MOH.
- Reduce the risk of relapse in patients with a history of MOH.
- Identify when a referral to a chemical dependency program is appropriate and/or necessary.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Professionalism, Systems-based Practice



SYMPOSIUM agenda

thursday

4:10 pm – 4:35 pm

November 20, 2014

Post-discharge Management and Pitfalls
Michael J. Marmura, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Design an effective acute and preventive plan after hospital discharge for headache.
- Recognize indications for referrals to assist with headache management.
- Develop strategies for managing setbacks as they occur after hospitalization.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Professionalism

4:35 pm – 5:00 pm

Q & A

2:00 pm – 5:00 pm

SALON I



Special Interest Section Symposia II

SPEED MENTORING

Presented by the New Investigator and Trainee Section

*Session not eligible for CME credit

Moderator: Shivang Joshi, MD

Topics:

Basic Science / Translational Medicine
Frank Porreca, PhD

Editorial / Clinical
Robert B. Daroff, MD, FAHS

Epidemiology / Behavioral
Dawn C. Buse, PhD, FAHS

Functional Imaging
Todd J. Schwedt, MD, MSCI, FAHS

Clinical Trials
Stewart J. Tepper, MD, FAHS

Advocacy / Interdisciplinary Collaboration
Deborah I. Friedman, MD, MPH, FAHS

Stigma
William B. Young, MD, FAHS

Junior Investigators / K Awardees
K.C. Brennan, MD, FAHS

Private Practice / Setting Up a Practice
Peter J. McAllister, MD



SYMPOSIUM agenda

thursday

November 20, 2014

At the conclusion of this presentation, attendees should be better able to:

- Obtain more insight into their research project.
- Access to high level expert opinion.

Physician core competency(s) related to this presentation is/are: Medical Knowledge, Practice-based Learning and Improvement, Systems-based Practice, Interpersonal Skills and Communications

2:00 pm – 5:15 pm

SALONS J-K-L

Headache 101

Moderator: Kathleen B. Digre, MD, FAHS

The American Headache Society gratefully acknowledges the educational support of this session from Allergan, Inc.

2:00 pm – 2:05 pm

Introduction
Kathleen B. Digre, MD, FAHS

2:05 pm – 2:30 pm

How to Take an Excellent Headache History
Rebecca Wells, MD, MPH

At the conclusion of this presentation, attendees should be better able to:

- Identify the questions to ask to pick up red flags.
- Apply the 5 key histories important for headache.
- Recognize important nuances in a headache history.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Professionalism, Systems-based Practice

2:30 pm – 2:55 pm

Acute Headache Treatment
Morris Levin, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- List pharmacological and other options for the acute treatment of primary headaches.
- Explain the mechanism of action of acute therapy for primary headaches.
- Avoid adverse medication interactions and unwanted side effects of acute pharmacological treatments for primary headaches.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement



SYMPOSIUM agenda

thursday

November 20, 2014

2:55 pm – 3:20 pm

Headaches in Kids
Marcy E. Yonker, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Identify “red flags” for serious causes of headache in children.
- Identify migraine and migraine variants in children.
- Discuss the indications for neurodiagnostic testing in the evaluation of headache in children.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

3:20 pm – 3:45 pm

Break

3:45 pm – 4:10 pm

The Use of Preventive Medications in Migraine
Juline Bryson, MD

At the conclusion of this presentation, attendees should be better able to:

- Decide when it is appropriate to use daily medications to prevent migraine headaches.
- Distinguish which medications have been proven to decrease migraine headaches when used on a daily basis.
- Choose the best preventive medication to match the needs of their individual patients.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills

4:10 pm – 4:35 pm

Pathophysiology
K.C. Brennan, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- List the nervous system regions relevant to headache.
- Describe the trigeminovascular system and how headache treatments are thought to impact it.
- Explain how we think a migraine attack might occur - and identify gaps in our understanding.
- Explain how we think migraine goes from episodic to chronic - and identify gaps in our understanding.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge



SYMPOSIUM agenda

thursday

4:35 pm – 5:00 pm

November 20, 2014

Patient Education and the Role of the Nurse Practitioner
Maureen Ann Moriarty, DNP, APRN

At the conclusion of this presentation, attendees should be better able to:

- Discuss results from the 2013 descriptive survey of nurse practitioners and physician assistant roles in headache centers.
- Describe patient education strategies facilitated by nurse practitioners in ambulatory/acute care settings, the community (local/distance), and media (print or web-based).
- Identify, within their practice, advantages of interprofessional collaboration with nurse practitioners for patient education.

Physician core competency(s) related to this presentation is/are: Patient Care, Interpersonal and Communication Skills, Professionalism

5:00 pm – 5:15 pm

Q&A

friday

6:45 am – 7:45 am

SUNSHINE/CHOLLA

7:45 am – 8:00 am

SALONS A-G

8:00 am – 10:00 am

SALONS A-G

November 21, 2014

Continental Breakfast and Exhibits

Welcome / Opening Remarks

Lawrence C. Newman, MD, FAHS and Sheena K. Aurora, MD, FAHS

Plenary 1: Head Talks

Moderator: Bert B. Vargas, MD, FAHS

8:00 am – 8:05 am

Introduction
Bert B. Vargas, MD, FAHS

8:05 am – 8:10 am

8:10 am – 8:28 am

8:28 am – 8:30 am

Case Presentation
Epidemiology
Case Wrap-up
Richard B. Lipton, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Discuss the prevalence, burden and distribution of primary headache disorders.
- Use epidemiologic information to improve diagnosis of headache disorders.
- Understand risk factors for migraine progression.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge



SYMPOSIUM agenda

friday

November 21, 2014

8:30 am – 8:35 am

8:35 am – 8:53 am

8:53 am – 8:55 am

Case Presentation

Pathophysiology

Case Wrap-up

Andrew C. Charles, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Recognize basic mechanisms of headache disorders.
- Identify new therapeutic targets for headache.
- Apply understanding of basic headache mechanisms to clinical practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

8:55 am – 9:00 am

9:00 am – 9:18 am

9:18 am – 9:20 am

Case Presentation

Acute Treatment

Case Wrap-up

Kathleen B. Digre, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- List 5 key elements of acute headache treatment.
- Describe 3 factors that impede acute headache treatment.
- Know the difference between migraine specific therapy and rescue therapy.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

9:20 am – 9:25 am

9:25 am – 9:43 am

9:43 am – 9:45 am

Case Presentation

Preventive Treatment of Migraine

Case Wrap-up

Elizabeth W. Loder, MD, MPH, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Define and describe situations in which preventive treatment for migraine should be considered.
- Classify and give examples of preventive medications for migraine, and the strength of evidence that supports their use.
- Formulate an appropriate preventive treatment plan for patients with migraine.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Interpersonal and Communication Skills

9:45 am – 10:00 am

Q & A

10:00 am - 10:30 am

Refreshment Break and Exhibits

SUNSHINE/CHOLLA



SYMPOSIUM agenda

friday

November 21, 2014

10:30 am – 11:45 am

SALONS A-G

10:30 am – 10:35 am

Plenary 2: Trigeminal Autonomic Cephalalgias, Secondary and Imaging Headaches

Moderator: Werner J. Becker, MD, FAHS

Introduction

Werner J. Becker, MD, FAHS

10:35 am – 10:55 am

Trigeminal Autonomic Cephalalgias

Peter J. Goadsby, MD, PhD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Explain TAC pathophysiology to patients.
- Acquire clinical clues to the differential diagnosis of TACs.
- Distinguish TACs by clinical and treatment responses.
- Devise strategies of investigation for TACs.
- Plan the care of patients with TACs.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

10:55 am – 11:15 am

Secondary Headache

R. Allan Purdy, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Define important TOP RED FLAGS for Secondary Headaches.
- Recognize the ones that are really DANGEROUS and cannot be missed.
- Illustrate by way of SELECTED CASES how important it is to know about secondary headaches.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

11:15 am - 11:35 am

Imaging Findings and Strategies in the Evaluation of Headache

Kent Nelson, MD

At the conclusion of this presentation, attendees should be better able to:

- Recognize imaging findings that can be present in patients with secondary headache.
- Select appropriate imaging options and strategies in specific headache syndromes.
- Demonstrate imaging findings and essential structures to patients with headache.
- Identify and disregard some of the imaging artifacts encountered with MRI evaluation of headache patients.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

11:35 am – 11:45 am

Q & A



SYMPOSIUM agenda

friday

11:45 am - 1:00 pm

SALONS A-G



11:45 am - 1:30 pm

SUNSHINE/CHOLLA

1:30 pm – 3:30 pm

SALONS J-K-L

November 21, 2014

Debate: Venous Sinus Stenting IIH

Moderator: Joel R. Saper, MD, FAHS

PRO: Felipe Albuquerque, MD

At the conclusion of this presentation, attendees should be better able to:

- Understand the indications and techniques for intracranial stenting.
- Understand the contraindications for this treatment.
- Understand the potential complications of this treatment.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

CON: Deborah I. Friedman, MD, MPH, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe the clinical circumstances in which venous sinus stenting may be an appropriate treatment for IIH.
- Name the complications which have been reported with venous sinus stenting in patients with IIH.
- Explain the role of the cerebral venous system in regulating intracranial pressure and the rationale for venous sinus stenting in IIH.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

Lunch (available for purchase) and Exhibits

Concurrent Session 1: Speaker Training-Tips to Help You Present Like a Pro

Didactic Session Open to All Attendees

Advance Registration Required for Hands-on Session (follows Didactic Session)

Scott C. Litin, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Organize a teaching presentation with special emphasis on an effective opening and strong closing.
- Demonstrate helpful skills of presentation techniques.
- Create and deliver their next presentation more effectively than they have in the past.
- Constructively criticize the future presentations of others when they listen to them.

Physician core competency(s) related to this presentation is/are: Communication Skills



SYMPOSIUM agenda

friday

1:30 pm – 3:30 pm

SALON I

November 21, 2014

Concurrent Session 2: Injection Training

Advance Registration Required – Limited Enrollment

Moderator: Andrew Blumenfeld, MD, FAHS

Bert B. Vargas, MD, FAHS

Rashmi B. Halker, MD, FAHS

Jack Schim, MD, FAHS

Jessica Ailani, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Perform onabotulinumtoxinA injections.
- Perform occipital nerve blocks.
- Perform supraorbital and other nerve blocks.
- Decide when to perform a nerve block for a patient.
- Decide when to refer a patient for onabotulinumtoxinA injections for their headaches.

Physician core competency(s) related to this presentation is/are: Practice-based Learning and Improvement

1:30 pm – 3:30 pm

SALONS A-G

Concurrent Session 3: Office Practice

Moderator: Joel R. Saper, MD, FAHS

1:30 pm – 1:35 pm

Introduction

Joel R. Saper, MD, FAHS

1:35 pm – 1:53 pm

Billing and Coding

Neil Parikh, MD, MBA

At the conclusion of this presentation, attendees should be better able to:

- Develop basic understanding of practice valuation.
- Be better aware of changes in billing and coding.
- Navigate various options for private practices such as hospital employment, IPA, or transitioning to cash practice.

Physician core competency(s) related to this presentation is/are: Practice-based Learning and Improvement





SYMPOSIUM agenda

friday

November 21, 2014

1:53 pm – 2:11 pm

Adherence

Scott W. Powers, PhD, ABPP, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Comprehend definitions of adherence.
- Identify ways to measure adherence.
- Appreciate what is known about adherence in patients with chronic pain, and in particular, headache disorders.
- Incorporate questions and approaches to promote adherence into their office practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Systems-based Practice.

2:11 pm – 2:29 pm



Affordable Care Act – What It Means to You

Joshua M. Cohen, MD, MPH and Neil Parikh, MD, MBA

At the completion of this program, participants will be better able to:

- Analyze how the Patient Protection and Affordable Care Act has changed the landscape of healthcare provision and understand the new payment models and insurance products which physicians may see in the marketplace.
- Review the Patient Centered Medical Home and how headache specialists may be able to obtain incentives for serving as the coordinator of a medical home for their patients.
- Discuss the “medical bump” and what it means for “cognitive care” providers while examining the shifting definition of these complex terms.

Physician core competency(s) related to this presentation is/are: Patient Care, Practice-Based Learning and Improvement, Systems Based Practice

2:29 pm – 2:47 pm

Building Communication Skills and Increasing Patient Satisfaction

David J. Gullen, MD

At the conclusion of this presentation, attendees should be better able to:

- Examine their reactions to difficult patient encounters.
- Analyze how using empathy and relationship building skills will help them deal with difficult patient encounters.
- Acquire core relationship building skills to use in clinical encounters.

Physician core competency(s) related to this presentation is/are: Patient Care, Professionalism and Interpersonal Skills



SYMPOSIUM agenda

friday

November 21, 2014

2:47 pm – 3:05 pm

Neurobiology of Stress and Resilience

Cynthia Stonnington, MD

At the conclusion of this presentation, attendees should be better able to:

- Explain how acute and chronic stress affects brain structure and function and leads to symptoms.
- Recognize strategies that resilient people use to buffer the detrimental effects of stress.
- Discuss the concept of mindfulness and its effect on brain structure and function.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

3:05 pm – 3:235 pm

Reimbursement and Follow Through Techniques

Stacy Girard, MBA, CPC

At the conclusion of this presentation, attendees should be better able to:

- Identify top reimbursement issues involving headache procedures.
- Develop monitoring tools to track and identify trends and/or issues related to denials.
- Locate key reimbursement and regulatory resources available.

Physician core competency(s) related to this presentation is/are: Practice-based Learning and Improvement

3:235 pm – 3:30 pm

Q & A

1:30 pm – 3:30 pm

SALONS H-M-N

Concurrent Session 4: Translational Medicine

Moderator: Robert E. Shapiro, MD, PhD

1:30 pm – 1:35 pm

Introduction

Robert E. Shapiro, MD, PhD

1:35 pm – 2:00 pm

Epidemiology Research

Dawn C. Buse, PhD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Explain the scientific methods of epidemiologic research.
- Critically read, critique and evaluate the scientific epidemiologic literature on migraine, headache, facial pain and related topics.
- Apply epidemiologic data to modify diagnosis and clinical care in clinical practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Systems-based Practice



SYMPOSIUM

agenda

friday

November 21, 2014

2:00 pm – 2:25 pm

The Genetics of Migraine
F. Michael Cutrer, MD

At the conclusion of this presentation, attendees should be better able to:

- Understand that a significant portion of the risk of migraine is heritable.
- Understand the significance of the genetics of migraine.
- Have better understanding of recent and ongoing genomic investigations in migraine.
- Know the difference between GWAS, WES and WGS based studies.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

2:25 pm – 2:50 pm

Animal Models of Headache
K.C. Brennan, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe and distinguish the cortical spreading depression, inflammatory soup, and nitroglycerin models of headache.
- Explain what animal models offer that cannot be obtained from work in humans.
- Be able to read original headache research papers (not just reviews!) without fear.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

2:50 pm – 3:15 pm

Research Imaging of the Migraine Brain
Todd J. Schwedt, MD, MSCI, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe basic concepts behind structural and functional imaging modalities that have been used to study migraine.
- Summarize findings from imaging studies that have investigated the brain during migraine attacks.
- Summarize findings from imaging studies that have investigated the brain between migraine attacks.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

3:15 pm – 3:30 pm

Q & A



SYMPOSIUM agenda

friday

November 21, 2014

1:30 pm – 3:30 pm

PEACE PIPE

Concurrent Session 5: Complementary and Alternative Medicine

Moderator: Stewart J. Tepper, MD, FAHS

1:30 pm – 1:35 pm

Introduction
Stewart J. Tepper, MD, FAHS

1:35 pm – 2:05 pm

Role of Acupuncture in Headache Disorders
Remy Coeytaux, MD, PhD

At the conclusion of this presentation, attendees should be better able to:

- Be familiar with the history and practice of acupuncture.
- Know about the breadth of the published literature that pertains to acupuncture for headache disorders.
- Know the key findings from seminal trials and meta-analyses of acupuncture for migraine, tension-type headache, and chronic headache disorders.
- Be familiar with the findings from a large, patient level data meta-analysis of acupuncture for chronic headache.
- Discuss with their patients the potential role that acupuncture might play in the management or prevention of migraine, tension-type headache, and chronic daily headache.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

2:05 pm – 2:30 pm

The Use of Nutraceuticals in Individuals with Headache
Tamara Pringsheim, MD

At the conclusion of this presentation, attendees should be better able to:

- Comprehend the evidence supporting the use of nutraceuticals for the treatment of headache.
- Apply knowledge regarding the efficacy of nutraceuticals to headache-related clinical case scenarios.
- Acknowledge public interest in and preferences for the use of nutraceuticals to treat medical conditions, including headache.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge





SYMPOSIUM agenda

friday

November 21, 2014

2:30 pm – 2:55 pm

Diet

Vincent T. Martin, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Recognize which foods and/or beverages represent potential triggers for migraine headache.
- Describe the potential mechanisms through which food and/or beverages might trigger attacks of migraine.
- Identify the specific diets that have been shown to reduce the frequency of chronic headache and/or migraine headache.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

2:55 pm – 3:30 pm

Q & A

3:30 pm – 4:00 pm

WEST FOYER

Refreshment Break and Exhibits

4:00 pm – 5:00 pm

Committee and Section Meetings

5:00 pm – 5:30 pm

CAMELBACK PATIO

New Member Reception

5:30 pm – 6:15 pm

SALONS J-K-L

AHS Town Hall

6:00 pm – 6:30 pm

SALONS A-G

AHS Tweet Chat

6:30 pm – 8:00 pm

PEACE PIPE

Satellite Symposium

saturday

November 22, 2014

6:45 am – 8:00 am

SUNSHINE/CHOLLA

Continental Breakfast and Exhibits

8:00 am – 9:30 am

SALONS A-G

Plenary 3: Migraine and Obesity

Moderator: Dawn C. Buse, PhD, FAHS

8:00 am – 8:05 am

Introduction

Dawn C. Buse, PhD, FAHS



SYMPOSIUM agenda

saturday

November 22, 2014

8:05 am – 8:30 am

The Association between Migraine and Obesity – Not Just Empty Calories
Richard B. Lipton, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Assess the role of obesity as a migraine initiating and exacerbating factor.
- Discuss the specificity of obesity as a factor in migraine vs. other headache and pain disorders.
- Incorporate assessments of obesity, depression, allodynia and anxiety into patient evaluations in headache practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

8:30 am – 8:55 am

Beyond BMI: Mechanisms and Implications of the Migraine and Obesity Association
B. Lee Peterlin, DO, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe the central and peripheral nervous system processes which overlap in both the regulation of feeding and migraine pathophysiology.
- Identify neurotransmitters and molecules that are targeted by existing migraine therapies which also modulate the drive to feed.
- Define what an adipokine is and discuss how certain adipokines may promote inflammatory processes underlying the migraine and obesity association.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

8:55 am - 9:20 am

Weight Loss as a Treatment for Migraine: Emerging Evidence and Practical Implications
Dale S. Bond, PhD

At the conclusion of this presentation, attendees should be better able to:

- Identify and explain putative physiological, psychological, and behavioral mechanisms through which weight loss might help to reduce attack frequency and severity in persons who have migraine and obesity.
- Summarize existing evidence to support weight loss, produced via surgical and behavioral methods, as a treatment for migraine in persons with obesity.
- Articulate a rationale for conducting randomized controlled trials to test behavioral weight loss as a treatment for migraine in persons with obesity.
- Describe the aims and methods of the Women's Health and Migraine (WHAM) trial, the first randomized controlled trial to test behavioral weight loss treatment for migraine.
- Discuss the potential implications of WHAM and other trials for research and clinical practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Systems-based Practice





SYMPOSIUM agenda

saturday

November 22, 2014

9:20 am – 9:30 am

Q & A

9:30 am – 10:00 am

Break and Exhibits

SUNSHINE/CHOLLA

10:00 am – 11:00 am

Plenary 4: Women's Issues / Vascular

SALONS A-G

Moderator: Juline Bryson, MD

10:00 am – 10:05 am

Introduction
Juline Bryson, MD

10:05 am – 10:25am

Cardiac Evaluation of the Female Migraineur: An Internist's Perspective
Susan Hutchinson, MD

At the conclusion of this presentation, attendees should be better able to:

- Utilize and be aware of current published guidelines for the assessment of cardiovascular risk in women.
- Apply cardiovascular risk assessment tools in the female migraineur in the clinical setting.
- Describe the clinical implications of the cardiovascular risk in developing a migraine treatment plan.
- List the acute and preventive migraine medications that may be of concern in women who have a high risk of cardiovascular disease (CVD).

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

10:25am – 10:45 am

Use of Exogenous Estrogen In Women with Migraines: The Risk of Adverse Cerebrovascular Outcomes
Huma Sheikh, MD

At the conclusion of this presentation, attendees should be better able to:

- Identify Risk Factors associated with Stroke in women with migraines.
- Review the WHO and ACOG guidelines regarding the use of exogenous hormones in women with migraine.
- Develop an understanding of the pathophysiology of estrogen hormones on the arterial circulation.
- Review the Protocol for the development of Guidelines regarding the Use of Exogenous Estrogens in Women with Migraine.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Systems-based Practice



SYMPOSIUM agenda

saturday

November 22, 2014

10:45 am – 11:05 am

Pathophysiology of Hormone and Migraine
Gretchen Tietjen, MD

At the conclusion of this presentation, attendees should be better able to:

- Describe the epidemiology of migraine in women throughout the life cycle, including at menarche, during pregnancy, and after menopause.
- Explain the mechanisms by which sex hormones may serve as a migraine trigger in women.
- Discuss treatment options for menstrual migraine, including the use of exogenous hormones.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

11:05 am – 11:15 am

Q & A

11:15 am – 12:00 pm

General Session: Orthostatic Hypotension, POTS and Migraine
Deborah Tepper, MD
Moderator: Stephen D. Silberstein, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Identify the symptoms of POTS as well as the epidemiology of the disorder in relation to migraine.
- Organize an efficient diagnostic and treatment strategy for POTS in the migraineur, such that patients can lead as normal a life as possible.
- Describe to migraine patients the likely course of their POTS and engage them in implementation of treatment strategies that address their headaches as well as their POTS symptoms.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

12:00 pm – 12:30 pm

SUNSHINE/CHOLLA

Lunch (available for purchase) and Exhibits





SYMPOSIUM agenda

saturday

November 22, 2014

12:30 pm – 1:45 pm

SALONS A-G

General Session: What's New?

Moderator: Lawrence C. Newman, MD, FAHS

12:30 pm – 12:35 pm

Introduction

Lawrence C. Newman, MD, FAHS

12:35 pm – 1:05 pm

What You Missed from Meetings this Year: An Overview of the AHS 56th Annual Scientific Meeting and AAN 2014

Peter J. Goadsby, MD, PhD, FAHS and Andrew C. Charles, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Review advances in headache reported at the AHS and AAN 2014 meeting.
- Provide the attendees with clinically relevant information as well as some important highlights of basic science material presented at the meetings.

Physician core competency(s) related to this presentation is/are: Medical Knowledge, Systems-Based Practice, Patient Care, Practice-Based Learning and Improvement

1:05 pm – 1:35 pm

Cases and Highlights from the Headache Literature

Thomas N. Ward, MD, FAHS and David W. Dodick, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Be aware of the various features to be found in headache, including special on-line features.
- Be aware of several interesting articles with substantial impact/relevance for clinical practice.
- Be aware especially of the Toolboxes, useful for clinicians and patients. Note that this feature is also available in Spanish.
- Develop a systematic approach to the evaluation of patients with challenging headache presentations.
- Describe the most important advances in the basic science of headache reported in the literature over the past year.
- Discuss the most important clinical advances in headache medicine reported in the literature over the past year.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills

1:35 pm – 1:45 pm

Q & A



SYMPOSIUM agenda

saturday

November 22, 2014

1:45 pm – 3:15 pm

SALONS A-G

Plenary 5: Difficult to Treat – Challenging Cases

Moderators: Sheena K. Aurora, MD, FAHS and Stewart J. Tepper, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Assess patients with complicated headache disorders.
- Analyze comorbidities in patients with refractory headaches.
- Assess and formalize a good treatment strategy for challenging patients.
- Manage patients with difficult to treat headache disorders.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

3:15 pm – 3:45 pm

SALONS A-G

Frontiers in Headache Research Scholarship Awards & Presentations

Moderator: Peter J. Goadsby, MD, PhD, FAHS

3:45 pm – 4:00 pm

SUNSHINE/CHOLLA

Refreshment Break and Exhibits

4:00 pm – 6:00 pm

SALONS H-M-N

Concurrent Session 6: Pediatrics

Moderator: Andrew D. Hershey, MD, PhD, FAHS

4:00 pm – 4:05 pm

Introduction

Andrew D. Hershey, MD, PhD, FAHS

4:05 pm – 4:30 pm

Latest in Genetics and Pediatric Migraine

Andrew D. Hershey, MD, PhD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Understand the influence of inheritance on pediatric migraine in contrast to environmental factors.
- Have a general understanding of the variety of gene polymorphisms that may be associated with migraine and the significance of a polygenetic disorder.
- How the study of gene expression can assist with the understanding of migraine.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

4:30 pm – 4:55 pm

Evolution of Pediatric Migraine: From Colic to Headache

Amy Gelfand, MD

At the conclusion of this presentation, attendees should be better able to:

- Describe the episodic syndromes that may be associated with migraine, and the phenotypes of migraine in young children.
- Diagnose migrainous disorders in young children.
- Select treatment options for episodic syndromes that may be associated with migraine.

Physician core competency(s) related to this presentation is/are: Medical Knowledge 31



SYMPOSIUM agenda

saturday

November 22, 2014

4:55 pm – 5:20 pm

Pediatric Concussion
Marcy E. Yonker, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Discuss most recent recommendations on management of pediatric concussion.
- Treat the symptoms of concussion in children.
- Advocate for their patients with school and coaches.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

5:20 pm – 5:45 pm

Evidence from Cognitive Behavioral Therapy
Scott W. Powers, PhD, ABPP, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Talk with patients and families about what cognitive behavioral therapy is and how it can help reduce headache frequency and disability.
- Discuss the evidence base/outcomes from clinical trials of CBT with children, adolescents, and young adults with headache disorders.
- Establish relationships with providers in their community that may be able to provide CBT to their patients.
- Understand the current evidence for application of CBT using technology and/or self-management approaches in pediatrics.
- Integrate adherence promotion, healthy habits, abortive medication, prevention medication, and cognitive behavioral therapy into an optimal treatment plan for children, adolescents, and young adults with migraine and headache disorders.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Systems-based Practice

5:45 pm – 6:00 pm

Q & A

4:00 pm – 6:00 pm

SALON I

Concurrent Session 7: Headache 101

Moderator: Kathleen B. Digre, MD, FAHS

The American Headache Society gratefully acknowledges the educational support of this session from Allergan, Inc.

4:00 pm – 4:05 pm

Introduction
Kathleen B. Digre, MD, FAHS





SYMPOSIUM agenda

saturday

November 22, 2014

4:05 pm – 4:20 pm

How to Take an Excellent Headache History
Amaal Starling, MD

At the conclusion of this presentation, attendees should be better able to:

- Identify the questions to ask to pick up red flags.
- Apply the 5 key histories important for headache.
- Recognize important nuances in a headache history.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Professionalism, Systems-based Practice

4:20 pm – 4:35 pm

Acute Headache Treatment
Morris Levin, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- List pharmacological and other options for the acute treatment of primary headaches.
- Explain the mechanism of action of acute therapy for primary headaches.
- Avoid adverse medication interactions and unwanted side effects of acute pharmacological treatments for primary headaches.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

4:35 pm – 4:50 pm

Headaches in Kids
Paul Winner, DO, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe and explain why kids migraines are not little adult migraines.
- Distinguish and interpret the symptoms necessary for the diagnosis and treatment of the episodic syndromes that may be associated with migraine; which often have their initial presentation in childhood.
- Recognition of migraine and the episodic syndromes associated with migraine in the pediatric population is paramount in preventing both under diagnosis and under treatment.
- Analyze, measure and grade the issues of when to be concerned about secondary headaches in kids and what to do.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Professionalism



SYMPOSIUM agenda

saturday

November 22, 2014

4:50 pm – 5:05 pm

The Use of Preventive Medications in Migraine
Juline Bryson, MD

At the conclusion of this presentation, attendees should be better able to:

- Decide when it is appropriate to use daily medications to prevent migraine headaches.
- Distinguish which medications have been proven to decrease migraine headaches when used on a daily basis.
- Choose the best preventive medication to match the needs of their individual patients.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills

5:05 pm – 5:20 pm

Pathophysiology
Andrew C. Charles, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Recognize basic mechanisms of headache disorders.
- Identify new therapeutic targets for headache.
- Apply understanding of basic headache mechanisms to clinical practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

5:20 pm – 5:35 pm

Patient Education and Role of Nurse Practitioner
Maureen Ann Moriarty, DNP, APRN

At the conclusion of this presentation, attendees should be better able to:

- Discuss results from the 2013 descriptive survey of nurse practitioners and physician assistant roles in headache centers.
- Describe patient education strategies facilitated by nurse practitioners in ambulatory/acute care settings, the community (local/distance), and media (print or web-based).
- Identify, within their practice, advantages of interprofessional collaboration with nurse practitioners for patient education.

Physician core competency(s) related to this presentation is/are: Patient Care, Interpersonal and Communication Skills, Professionalism

5:35 pm – 6:00 pm

Q&A



SYMPOSIUM agenda

saturday

November 22, 2014

4:00 pm – 6:00 pm

SALONS J-K-L

Concurrent Session 8: Translational Medicine

Moderator: Robert E. Shapiro, MD, PhD

4:00 pm – 4:05 pm

Introduction
Robert E. Shapiro, MD, PhD

4:05 pm – 4:30 pm

Epidemiology Research
Dawn C. Buse, PhD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Understand and explain the scientific methods of epidemiologic research.
- Critically read, critique and evaluate the scientific epidemiologic literature on migraine, headache, facial pain and related topics.
- Apply epidemiologic data to modify diagnosis and clinical care in clinical practice.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Systems-based Practice

4:30 pm – 4:55 pm

The Genetics of Migraine
F. Michael Cutrer, MD

At the conclusion of this presentation, attendees should be better able to:

- Understand that a significant portion of the risk of migraine is heritable.
- Understand the significance of the genetics of migraine.
- Have better understanding of recent and ongoing genomic investigations in migraine.
- Know the difference between GWAS, WES and WGS based studies

Physician core competency(s) related to this presentation is/are: Medical Knowledge

4:55 pm – 5:20 pm

Animal Models of Headache
K.C. Brennan, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe and distinguish the cortical spreading depression, inflammatory soup, and nitroglycerin models of headache.
- Explain what animal models offer that cannot be obtained from work in humans.
- Be able to read original headache research papers (not just reviews!) without fear.

Physician core competency(s) related to this presentation is/are: Medical Knowledge



SYMPOSIUM agenda

saturday

November 22, 2014

5:20 pm – 5:45 pm

Research Imaging of the Migraine Brain
Todd J. Schwedt, MD, MSCI, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Describe basic concepts behind structural and functional imaging modalities that have been used to study migraine.
- Summarize findings from imaging studies that have investigated the brain during migraine attacks.
- Summarize findings from imaging studies that have investigated the brain between migraine attacks.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

5:45 pm – 6:00 pm

Q & A

4:00 pm – 6:00 pm

PEACE PIPE

Concurrent Session 9: Complementary and Alternative Medicine

Moderator: Stewart J. Tepper, MD, FAHS

4:00 pm – 4:05 pm

Introduction
Stewart J. Tepper, MD, FAHS

4:05 pm – 4:30 pm

Role of Acupuncture in Headache Disorders
Remy Coeytaux, MD, PhD

At the conclusion of this presentation, attendees should be better able to:

- Be familiar with the history and practice of acupuncture.
- Know about the breadth of the published literature that pertains to acupuncture for headache disorders.
- Know the key findings from seminal trials and meta-analyses of acupuncture for migraine, tension-type headache, and chronic headache disorders.
- Be familiar with the findings from a large, patient level data meta-analysis of acupuncture for chronic headache.
- Discuss with their patients the potential role that acupuncture might play in the management or prevention of migraine, tension-type headache, and chronic daily headache.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge





SYMPOSIUM agenda

saturday

November 22, 2014

4:30 pm – 4:55 pm

The Use of Nutraceuticals in Individuals with Headache
Tamara Pringsheim, MD

At the conclusion of this presentation, attendees should be better able to:

- Comprehend the evidence supporting the use of nutraceuticals for the treatment of headache.
- Apply knowledge regarding the efficacy of nutraceuticals to headache-related clinical case scenarios.
- Acknowledge public interest in and preferences for the use of nutraceuticals to treat medical conditions, including headache.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

4:55 pm – 5:20 pm

Diet
Vincent T. Martin, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Recognize which foods and/or beverages represent potential triggers for migraine headache.
- Understand the potential mechanisms through which food and/or beverages might trigger attacks of migraine.
- Learn the specific diets that have been shown to reduce the frequency of chronic headache and/or migraine headache.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

5:20 pm – 6:00 pm

Q & A

6:00 pm – 7:00 pm

Wine and Cheese Reception

SONORAN TERRACE





SYMPOSIUM agenda

sunday

November 23, 2014

7:00 am – 8:00 am

WEST FOYER

Continental Breakfast

8:00 am – 10:00 am

SALONS H-M-N

Concurrent Session 10: Pediatrics

Moderator: Marcy E. Yonker, MD, FAHS

8:00 am – 8:05 am

Introduction

Marcy E. Yonker, MD, FAHS

8:05 am – 8:30 am

Latest in Genetics and Pediatric Migraine

Andrew D. Hershey, MD, PhD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Understand the influence of inheritance on pediatric migraine in contrast to environmental factors.
- Have a general understanding of the variety of gene polymorphisms that may be associated with migraine and the significance of a polygenetic disorder.
- How the study of gene expression can assist with the understanding of migraine.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge

8:30 am – 8:55 am

Evolution of Pediatric Migraine: From Colic to Headache

Amy Gelfand, MD

At the conclusion of this presentation, attendees should be better able to:

- Describe the episodic syndromes that may be associated with migraine, and the phenotypes of migraine in young children.
- Diagnose migrainous disorders in young children.
- Select treatment options for episodic syndromes that may be associated with migraine.

Physician core competency(s) related to this presentation is/are: Medical Knowledge

8:55 am – 9:20 am

Pediatric Concussion

Marcy E. Yonker, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Discuss most recent recommendations on management of pediatric concussion.
- Treat the symptoms of concussion in children.
- Advocate for their patients with school and coaches.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement

9:20 am – 9:45am

Evidence from Cognitive Behavioral Therapy

Scott W. Powers, PhD, ABPP, FAHS



SYMPOSIUM agenda

sunday

November 23, 2014

At the conclusion of this presentation, attendees should be better able to:

- Talk with patients and families about what cognitive behavioral therapy is and how it can help reduce headache frequency and disability.
- Discuss the evidence base/outcomes from clinical trials of CBT with children, adolescents, and young adults with headache disorders.
- Establish relationships with providers in their community that may be able to provide CBT to their patients.
- Understand the current evidence for application of CBT using technology and/or self-management approaches in pediatrics.
- Integrate adherence promotion, healthy habits, abortive medication, prevention medication, and cognitive behavioral therapy into an optimal treatment plan for children, adolescents, and young adults with migraine and headache disorders.

Physician core competency(s) related to this presentation is/are: Patient Care, Medical Knowledge, Practice-based Learning and Improvement, Interpersonal and Communication Skills, Systems-based Practice

9:45 am – 10:00 am

Q & A

8:00 am – 10:00 am

SALON I

Concurrent Session 11: Injection Training

Advance Registration Required – Limited Enrollment

Moderator: Rashmi B. Halker, MD, FAHS

Bert B. Vargas, MD, FAHS

Rashmi B. Halker, MD, FAHS

Juline Bryson, MD

Matthew S. Robbins, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Perform onabotulinumtoxinA injections.
- Perform occipital nerve blocks.
- Perform supraorbital and other nerve blocks.
- Decide when to perform a nerve block for a patient.
- Decide when to refer a patient for onabotulinumtoxinA injections for their headaches.

Physician core competency(s) related to this presentation is/are: Practice-based Learning and Improvement



SYMPOSIUM **agenda**

sunday

November 23, 2014

8:00 am – 10:00 am

SALONS J-K-L

Concurrent Session 12: Speaker Training-Tips to Help You Present Like a Pro
Didactic Session Open to All Attendees

Advance Registration Required for Hands-on Session (follows Didactic Session)

Scott C. Litin, MD, FAHS

At the conclusion of this presentation, attendees should be better able to:

- Organize a teaching presentation with special emphasis on an effective opening and strong closing.
- Demonstrate helpful skills of presentation techniques.
- Create and deliver their next presentation more effectively than they have in the past.
- Constructively criticize the future presentations of others when they listen to them.

Physician core competency(s) related to this presentation is/are:
Communication Skills





GENERAL information

Conference Registration and Information Desk

The Scottsdale Headache Symposium® Conference Registration and Information Desk is located in the Arizona Ballroom Foyer and will be staffed during the hours listed below:

Thursday, November 20	12:00 pm – 6:00 pm
Friday, November 21	6:00 am – 6:00 pm
Saturday, November 22	6:00 am – 6:00 pm
Sunday, November 23	7:00 am – 11:00 am

Continuing Medical Education

The American Headache Society® is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

AHS takes responsibility for the content, quality, and scientific integrity of this CME activity.

The American Headache Society® designates this educational activity for a maximum of 24.25 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

AAFP

This Live activity, the 2014 Scottsdale Headache Symposium®, with a beginning date of November 20, 2014, has been reviewed and is acceptable for up to 20.00 Prescribed credit(s) by the American Academy of Family Physicians (AAFP). Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Evaluation And CME Statement Of Attendance

During the AHS Annual Scientific Meeting, at the end of every day, you will receive an email link(s) to complete the evaluation for that day. Shortly after the meeting, AHS will email a link to the overall evaluation form. Upon completion of the form, you will be re-directed to the CME trackig form. Please complete the form, click on SUBMIT, or print and fax your form to AHS. Your CME certificate will be emailed to you.

Thank you, in advance, for completing the evaluation...your opinion and feedback matters!

Social Media

Find out what is happening live at the 2014 Scottsdale Headache Symposium® by following the AHS Twitter team @ahsheadache. We want to hear from you - join in the conversation by tagging your tweets with #AHS14AZ. If you are sitting in one session and wondering what you're missing in another why not Tweet about it?

Acknowledgements

The American Headache Society® gratefully acknowledges the support of this symposium from our industry sponsors.

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The American Headache Society® gratefully acknowledges the educational support of this symposium from our industry sponsors.

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Pfizer

The American Headache Society® gratefully acknowledges the educational support of the Neuromodulation for Headache Advance Course from our industry sponsors.

Platinum

electroCore

eNeura

Exhibits

Exhibits will be available for viewing during the symposium and representatives will be on hand to answer questions. Please visit the exhibits as they are an integral part of the meeting.

Friday, November 21	6:45 am – 1:30 pm
Saturday, November 22	6:45 am – 10:00 am 12:00 pm – 4:00 pm

Continental Breakfast

A Continental Breakfast for symposium attendees and registered guests will be served each morning as follows:

Friday, November 21	6:45 am – 7:45 am
Cholla / Sunshine Room	
Saturday, November 22	6:45 am – 8:00 am
Cholla / Sunshine Room	
Sunday, November 23	7:00 am – 8:00 am
West Foyer	

Social Event

You are cordially invited to join the AHS Board of Directors for a wine and cheese reception on Saturday evening from 6:00 pm – 7:00 pm on the Sonoran Terrace.

2014 Scottsdale Headache Symposium®

“FRONTIERS IN HEADACHE RESEARCH” SCHOLARSHIP AWARD RECIPIENTS

These awards are given to Headache Medicine Fellows, Residents and/or Post-doctoral Fellows who are in preparatory, active or completion phase of a basic or clinical research project that is related to headache or cranial nociception.

Recipients will be presenting their research project during the “Frontiers in Headache Research” Scholarship Awards Presentations on Saturday, November 22, from 3:15 pm – 3:45 pm.

They will also be presenting a poster highlighting their research which will be displayed in the Exhibit Hall.

CARLOS ESCASENA, MD

OnabotulinumtoxinA for the Treatment of New Daily Persistent Headache: Open Label Study

DR. ALEXANDRA J FABER, MSC MB CHB FRCPC (PEDIATRICS)

*A Comprehensive Pediatric Emergency Department Migraine Headache Guideline:
Benefits that Extend Beyond the Emergency Department*

MELISSA L. RAYHILL, MD

*Compliance with ICMJE Clinical Trial Registration Requirements in the
Headache Medicine Literature*

RONI SHARON, MD

UCNS Headache Intake Form Study



AHS Special Interest Section Meetings*

Friday, November 21, 2014

Time	Section Name	Meeting Room
6:30 – 8:00 am	Inpatient Headache & Emergency Care	Mesquite
	Post-traumatic Headache	Cottonwood
	Pediatric-Adolescent Headache	Palo Verde
4:00 – 5:00 pm	Procedural Headache Medicine	Cottonwood
	TMD, Cervical Spinal & Orofacial Pain	Mesquite
	Women's Issues	Palo Verde
	Primary Care	Salons H-M-N
	NP / PA	Salon I
	Refractory Headache	Salons A - G
	New Investigators & Trainees	Salons J-K-L

Sunday, November 23, 2014

6:30 – 8:00 am	Complementary & Alternative Medicine	Cottonwood
	Abuse & Maltreatment	Mesquite



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****Please note: Special Interest Section meetings are open to current members of AHS only.***



FACULTY disclosures

DISCLOSURE STATEMENT

All contributors who can affect American Headache Society CME content (including but not limited to Leadership, Program Chairs, Program Committee Members, Moderators, Faculty, Speakers, Reviewers, Teachers, Authors, Medical Writers and Staff), in their respective roles, are required to disclose all relevant financial relationships with any commercial interest that could be viewed as a real or perceived conflict of interest. Contributors will also identify relevant financial relationships of their spouse, partner or immediate family.

This policy is in effect to maintain adherence with the conflict of interest guidelines set by the Accreditation Council for Continuing Medical Education (ACCME) and the American Headache Society Ethics Committee.

Prior to the program, attendees will be made aware of the presence or absence of relevant financial relationships for any contributor who may affect the development, management, presentation or evaluation of the CME activity. The presence or absence of relevant financial relationships for any contributor who affects content are listed in Final Program, mobile app (where applicable), presented verbally and in slide form.

Individuals who refuse to disclose relevant financial relationships will be disqualified from being a contributor, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

FACULTY AND PRESENTERS

Ailani, Jessica

Dr. Ailani has received consulting fees and/or honoraria from Allergan and Avanir.

Albuquerque, Felipe

Dr. Albuquerque has nothing to disclose.

Aurora, Sheena

Dr. Aurora has received consulting fees and/or honoraria from Merck, Nupathe, eNeura, and Allergan, Inc. Dr. Aurora is also on all of their speaker bureaus.

Barker, Anthony

Dr. Barker has received consulting fees/honoraria from eNeura, Inc. and Magstim Company Ltd. He has also received royalty income from Magstim Company Ltd. Dr. Barker is also on the Speakers Bureau from eNeura, Inc.

Baskin, Steve

Dr. Baskin has received consulting fees and/or honoraria from Allergan, Depomed and NuPathe.

Becker, Werner

Dr. Becker has received consulting fees and/or honoraria from Allergan, Tribute, Electrocore, Serono and St. Jude. Dr. Becker has received fellowship support from Allergan and Research grants from St. Jude and Allergan.

Blumenfeld, Andrew

Dr. Blumenfeld has received consulting fees and/or honoraria from Allergan, Inc. He also is on the Speaker's Bureau of Allergan, Inc. as well as receives royalty income from Allergan, Inc.

Bond, Dale

Dr. Bond has nothing to disclose.

Brennan, K.C.

Dr. Brennan has received consulting fees and/or honoraria from Allergan, Inc. He is a recipient of research grants from Electrocore.

Bryson, Juline

Dr. Bryson has nothing to disclose.

Buse, Dawn

Dr. Buse has received consulting fees and/or honoraria from Allergan, Inc. and Zogenix.



FACULTY disclosures

Charles, Andrew

Dr. Charles has received consulting fees and/or honoraria from Amgen, eNeura and AGA Medical.

Charleston IV, Larry

Dr. Charlestown has nothing to disclose.

Chaudhry, Priyanka

Dr. Chaudhry has nothing to disclose.

Coeytaux, Remy

Dr. Coeytaux's spouse is a shareholder in Chapel Hill Doctors Healthcare Center and Acupuncture Balanced Health.

Cohen, Joshua

Dr. Cohen has nothing to disclose.

Cutrer, F. Michael

Dr. Cutrer has nothing to disclose.

Daroff, Robert

Dr. Daroff has nothing to disclose.

Digre, Kathleen

Dr. Digre has nothing to disclose.

Dodick, David

Dr. Dodick has received consulting fees and/or honoraria from Alder Pharmaceuticals, Allergan, Inc., Amgen, Artaeus, Colucid, Eli Lilly, eNeura, Merck & Co., Inc., NuPathe, Supernus, Labrys, Autonomic Technologies, Toxix and SAGE (Editorial).

Friedman, Deborah

Dr. Friedman is on the Speaker's Bureau of Allergan. She has received consulting fees and/or honoraria from Neurology Reviews and MedLink Neurology. Dr. Friedman is a recipient of a research grant from National Eye Institute. Dr. Friedman is a recipient of research grants from Merck & Co., Inc., and ElectroCore (in which funds were paid to her institution). She was also an expert witness (for the plaintiff and defense) for idiopathic intracranial hypertension.

Gelfand, Amy

Dr. Gelfand has nothing to disclose.

Girard, Stacy

Dr. Girard has nothing to disclose.

Goadsby, Peter

Dr. Goadsby has received consulting fees and/or honoraria from Pfizer, Zogenix, Nevrocorp, Impax, Dr.Reddy, Zosano and Amgen. He is on the Speaker's Bureau of Allergan, Inc. and Pfizer, Inc. He has received other financial benefit, as an expert witness from for Journal Watch Neurology (manuscript preparation) Medico (Legal advice, patient advice). Dr. Goadsby's institution has received grants from ENeura, Amgen and Allergan.

Gullen, David

Dr. Gullen has nothing to disclose.

Halker, Rashmi

Dr. Halker has nothing to disclose.

Hershey, Andrew

Dr. Hershey has received consulting fees and/or honoraria from Allergan, Inc.

Hutchinson, Susan

Dr. Hutchinson has received consulting fees and/or honoraria from Takeda and Allergan, Inc. Dr. Hutchinson is also on all of their speaker bureaus.

Joshi, Shivang

Dr. Joshi has nothing to disclose.

Lake III, Alvin

Dr. Lake has nothing to disclose.



FACULTY disclosures

Levin, Morris

Dr. Levin has received consulting fees and/or honoraria from Allergan, Inc., Supernus, Transept and Nupathe. Dr. Levin has also received royalty income from Oxford University Press and Anadem Publishing.

Lipton, Richard

Dr. Lipton has received consulting fees and/or honoraria from Alder, Allergan, Inc., Colucid, ElectroCore, Ethicon, GlaxoSmithKline, eNeura Therapeutics, Merck & Co., Inc., Novartis, NuPathe, Labrys, and Zogenix.

Litin, Scott

Dr. Litin has nothing to disclose.

Loder, Elizabeth

Dr. Loder is an officer, director or holds a fiduciary role in the Headache Cooperative of New England.

Lucas, Sylvia

Dr. Lucas has received research grants from Allergan, Amgen and Kineta.

Marmura, Michael

Dr. Marmura has received royalty income from Demos Medical, Cambridge University Press and Medlink Neurology.

Martin, Vincent

Dr. Martin has received consulting fees and/or honoraria from Allergan, Inc., eNeura Therapeutics, GlaxoSmithKline, Johnson and Johnson, Nautilus Neurosciences, Novartis, Nupath, Vedanta Research and Zogenix. He is on the Speaker's Bureau of Allergan, Inc. Dr. Martin has an equity interest on/or stock options in eNeura Therapeutics. He is the recipient of research grants from the National Headache Foundation, Novartis and Vedanta Research.

McAllister, Peter

Dr. McAllister has received fees from the Allergan and Depomed speaker bureaus and has received research grants from Amgen and Eli Lilly.

Moriarty, Maureen

Ms. Moriarty has received consulting fees and/or honoraria from Allergan, Inc.

Nahas, Stephanie

Dr. Nahas is the recipient of a research grant from NIH Pain Consortium. She has also received fellowship support from Allergan, Inc.

Nelson, Kent

Dr. Nelson has nothing to disclose.

Newman, Lawrence

Dr. Newman has received consulting fees and/or honoraria from Allergan, Inc., Labrys Biologics, Nupathe, and Zogenix. Dr. Newman is on the speaker bureaus for Allergan and Zogenix.

Oshinsky, Michael

Dr. Oshinsky is the recipient of research grants from Medtronic Inc, Tonix Pharmaceuticals, ElectroCore LLC, St. Jude's Medical, and has received consulting fees and/or honoraria from St. Jude and ElectroCore.

Parikh, Neil

Dr. Parikh has nothing to disclose.

Peterlin, B. Lee

Dr. Peterlin has received research grants from Luitpold Pharmaceuticals, GlaxoSmithKline, NIH/NINDS, Landenbergr Foundation. Dr. Peterlin also receives a salary from NIH/NINDS.

Porreca, Frank

Dr. Porreca has received research grants from Teva and Biogen/Idex.

Powers, Scott

Dr. Powers has nothing to disclose.

Pringsheim, Tamara

Dr. Pringsheim has received consulting fees and/or honoraria from Teva Neuroscience Canada and Allergan Canada.

Purdy, R. Allan

Dr. Purdy has received consulting fees and/or honoraria from Gammacore, Merck & Co., Inc. (Canada) and Tribute Pharmaceuticals.



FACULTY disclosures

Robbins, Matthew

Dr. Robbins receives consulting fees and/or honoraria from the American College of Physicians, American Headache Society, North Shore-LIJ Hofstra School of Medicine and Prova Education. He receives royalty income from Wiley.

Saper, Joel

Dr. Saper receives consulting fees and/or honoraria from Allergan, Nu Pathe, Johnson & Johnson (Ethicon) & Migraine Research Foundation. Dr. Saper is the receipt of research grants from Alder, Allergan, Amgen, Astellas, AstraZeneca, GlaxoSmithKline, ElectroCore, Innovative Medical Concepts, Neuraxon, Optinose, Osmotica, Pfizer, SK Life Sciences, Tian Medical & Vanda.

Schim, Jack

Dr. Schim has received consulting fees and / or honoraria from Allergan, Depomed and Boehringer. He has also received research grants from Allergan, Labrys and Acorda along with speaking for Allergan and Boehringer.

Schwedt, Todd

Dr. Schwedt has received consulting fees and/or honoraria from Allergan, Inc., Supernus, and Zogenix. He has received royalty income from UpToDate.

Shapiro, Robert

Dr. Shapiro has nothing to disclose.

Sheikh, Huma

Dr. Sheikh has nothing to disclose.

Silberstein, Stephen

Dr. Silberstein has received consulting fees and/or honoraria from Allergan, Inc., Amgen, Avanir Pharmaceuticals, Inc., eNeura Inc, ElectroCore Medical LLC, Medscape, LLC, Medtronic, Inc, Mitsubishi Tanabe Pharma America, Inc., Neuralieve; NINDS, Pfizer, Inc, Supernus Pharmaceuticals, Inc. and Teva Pharmaceuticals. His employer, Jefferson University Hospitals, receives research support from Allergan, Inc, Amgen, Cumberland Pharmaceuticals, Inc, ElectroCore Medical, LLC, Labrys Biologics; Eli Lilly and Company, Merz Pharmaceuticals and Troy Healthcare.

Starling, Amaal

Dr. Starling has nothing to disclose.

Stonnington, Cynthia

Dr. Stonnington has nothing to disclose.

Tepper, Deborah

Dr. Deborah Tepper has nothing to disclose, however, her spouse Dr. Stewart Tepper receives the following: consulting fees and/or honoraria from ATI, Allergan, Inc., Amgen, Civitas, Depomed, ElectroCore, Impax, Labrys Biologics (now Teva), Nautilus Neurosciences (now Avanir), Merck, NuPathe (now Teva), Pfizer, and Zogenix. He is on the Speaker's Bureau of ATI, Allergan, Inc., Depomed, and Impax. Dr. Tepper has stock options in ATI. He is the recipient of research grants from Amgen, Electrocore, GlaxoSmithKline, Labrys Biologics (now Teva), NuPathe (now Teva).

Tepper, Stewart

Dr. Stewart Tepper has received consulting fees and/or honoraria from ATI, Allergan, Inc., Amgen, Civitas, Depomed, ElectroCore, Impax, Labrys Biologics (now Teva), Nautilus Neurosciences (now Avanir), Merck, NuPathe (now Teva), Pfizer, and Zogenix. He is on the Speaker's Bureau of ATI, Allergan, Inc., Depomed, and Impax. Dr. Tepper has stock options in ATI. He is the recipient of research grants from Amgen, Electrocore, GlaxoSmithKline, Labrys Biologics (now Teva), NuPathe (now Teva).

Tietjen, Gretchen

Dr. Tietjen has nothing to disclose.

Vargas, Bert

Dr. Vargas has nothing to disclose.

Ward, Thomas

Dr. Ward has received consulting fees and/or honoraria from Cowan & Co.

Wassermann, Eric

Dr. Wasserman has nothing to disclose.

Wells, Rebecca

Dr. Wells has nothing to disclose.



FACULTY disclosures

Winner, Paul

Dr. Winner has received consulting fees and/or honoraria from Allergan, Inc. and Merck and Co., Inc. He is on the Speaker's Bureau of Allergan, Inc. and Zogenix. Dr. Winner is the recipient of research grants from GlaxoSmithKline, Allergan, Inc., Amgen, AstraZeneca, Avanir, Eli Lilly, Genentech, NuPathe, and Roche.

Yonker, Marcy

Dr. Yonker has received research grants as a primary investigator for Allergan Inc and NINDS.

Young, William

Dr. Young has nothing to disclose.

PROGRAM COMMITTEE

Aurora, Sheena

Dr. Aurora has received consulting fees and/or honoraria from Merck, Nupathe, eNeura, and Allergan, Inc. Dr. Aurora is also on all of their speaker bureaus.

Brennan, K.C.

Dr. Brennan has received consulting fees and/or honoraria from Allergan, Inc. He is a recipient of research grants from Electrocore.

Bryson, Juline

Dr. Bryson has nothing to disclose.

Halker, Rashmi

Dr. Halker has nothing to disclose.

Litin, Scott

Dr. Litin has nothing to disclose.

Tepper, Stewart

Dr. Stewart Tepper has received consulting fees/honoraria from ATI, Allergan, Amgen, Depomed, ElectroCore, Impax, Labrys (now Teva), Nautilus (now Avanir), Avanir, Merck, NuPathe (now Teva), Pfizer, Zogenix. He is on the speaker's bureau of ATI, Allergan, Depomed, Impax, Nautilus (now Avanir), Avanir and Zogenix. He has equity interest/stock options in ATI. He is the recipient of research grants from Amgen, ElectroCore, Labrys (now Teva) and NuPathe (now Teva).

Wells, Rebecca

Dr. Wells has nothing to disclose.

STAFF

Frye, Elizabeth

Ms. Frye has nothing to disclose.

Gallagher, Cheryl

Ms. Gallagher has nothing to disclose.

McGillicuddy, Linda

Ms. McGillicuddy has nothing to disclose.

Taylor, Andrea

Ms. Taylor has nothing to disclose.

Traino, Maripat

Ms. Traino has nothing to disclose.

Wolf, Renee

Ms. Wolf has nothing to disclose.





EXHIBITOR directory

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Allergan is a multi-specialty health-care company established more than 60 years ago with a commitment to uncovering the best of science and helping people reach their life's potential. With approximately 11,400 employees worldwide, we are committed to discovering new therapies to treat unmet medical needs in eye care, neurosciences, medical aesthetics, medical dermatology, breast aesthetics and urology.

Allevio SPG by Jet Medical

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American Headache Society

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The American Headache Society® (AHS) is a professional society of healthcare providers dedicated to the study and treatment of headache and face pain. AHS brings together physicians and other health providers to share concepts and developments about headache and related conditions. The 36 Million Migraine Campaign, a project of the Society's American Migraine Foundation is a national public mobilization and education campaign to increase our nation's research investment in migraine and raise public visibility.

Avanir Pharmaceuticals, Inc.

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Avanir Pharmaceuticals, Inc. is a biopharmaceutical company focused on acquiring, developing, and commercializing novel therapeutic products for the treatment of central nervous system disorders. Avanir Medical Information responds to unsolicited inquiries to help facilitate appropriate therapeutic utilization of Avanir medications. We strive to provide the highest-quality service to healthcare practitioners through the timely provision of scientifically sound, fair-balanced Medical Information resources.

Crealta Pharmaceuticals

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Crealta Pharmaceuticals is a specialty pharmaceutical company focused on therapeutics to improve patient outcomes. Crealta is a U.S. based company with headquarters in Glendale, WI. Crealta has a unique product for effective migraine prevention and treatment.

Depomed, Inc

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www.depomed.com

Depomed, Inc. is a specialty pharmaceutical company focused on developing and commercializing products to treat pain and other central nervous system conditions. The company was founded in 1995 and has established itself by developing and incorporating promising technology into differentiated therapeutic products, taking those products through clinical approval, and building a strong market presence.

Dolor Technologies, LLC

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Dolor Technologies' SphenoCath® is the first and only patented device specifically designed to give front-line health care providers unprecedented access to the Sphenopalatine ganglion, Trigeminal ganglion/V2, and pterygopalatine ganglion (together called the Sphenopalatine Circuit) in a simple procedure that can be performed without sedation, narcotics, or the debilitating side-effects of mainstream migraine therapies.

315**320****114****113**



EXHIBITOR **directory**

electroCore

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www.electrocoremedical.com

Leading the world of electroceuticals by developing therapies that directly, and non-invasively, target nerve signal imbalances and restore normal neurological function to help patients live life to its fullest, electroCore LLC is a U.S. based healthcare company developing non-invasive Vagus Nerve Stimulation (nVNS) therapies for the treatment of multiple conditions. The gammoCore® is the first of its kind, a hand held device that uses proprietary electrical signals to treat primary headache disorders.

eNeura Therapeutics LLC

240 North Wolfe Road
Sunnyvale, CA 94085
Tel: 408-245-6400
Fax: 405-245-6424
customercare@eneura.com
www.eneura.com

eNeura Inc., a privately held medical technology company, is pioneering the use of portable, non-invasive Transcranial Magnetic Stimulation (TMS) devices for treatment of migraine. Prescribed by physicians but designed for patient use, it is the first truly portable, convenient TMS product that will allow migraine patients to administer treatment as needed—at home, in the office or on the go.

iHeadache & iHeadache MD

6700 West Loop South, Suite 330
Bellaire, TX 77401
Tel: 281-768-3969
Fax: 713-715-6367
Support@iHeadache.com
www.iHeadache.com & www.iHeadacheMD.com

Our mission is to improve the quality of life of patients and their physicians. iHeadache® App is a comprehensive electronic headache diary available for the iPhone, iPad, and iPod touch. iHeadache Online™ (www.iHeadache.com) is a web-based headache diary. iHeadache® App and iHeadache Online™ classify, analyze and track all facets of headache pain including symptoms, triggers, disability and medications. iHeadache Online features graphs & charts, preventative treatment tracking & pain tracking. Both applications are designed to capture data from the patient in order to generate reports specifically formatted for their physician.

213**Impax Pharmaceuticals**

31047 Genstar Road
Hayward, CA 94544
Tel: 510-240-6000
Fax: 510-240-6096
inquiries@impaxlabs.com
www.impaxlabs.com

Impax Pharmaceuticals™ is a branded product division of Impax Laboratories™, Inc. Impax Pharmaceuticals is focused on targeting significant unmet needs, with a primary focus on developing treatments for neurological disorders.

Linpharma

630 Brooker Creek Blvd., Suite 350
Oldsmar, FL 34677
Tel: 888-290-6294
Fax: 813-343-5541
cmacdonald.medop@gmail.com
www.petadolex.com

Petasites butterbur is rated level A for episodic migraine prevention in adults. Only the Petadolex® branded butterbur has ever been used in all published clinical trials. The efficacy of Petadolex® butterbur for the prevention of migraine was shown in two placebo-controlled double-blind and randomized trials according to GCP and ICH guidelines. There are also open label trial results using Petadolex® in 108 children for a duration of four months. The mechanism of action of Petadolex® in migraine is uncertain. In vitro studies demonstrate that the extract used in Petadolex® has anti-inflammatory effects including antileukotriene activity.

National Headache Foundation

820 North Orleans St., Suite 411
Chicago, IL 60610
Tel: 888-NHF-5552
Fax: 312-640-9049
info@headaches.org
www.headaches.org

The National Headache Foundation's mission is "To cure headache, and end its pain and suffering." Its vision is "A World Without Headache." It is the premier educational and informational resource for those with headache, health care providers, and the public. It publishes the quarterly magazine, HeadWise® and the monthly e-newsletter, NHF News to Know. For information or a list of physicians in a geographical area who treat headache, visit www.headaches.org, or call 1-888-NHF-5552.

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EXHIBITOR directory

Neurology Reviews

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7 Century Drive, Suite 302
Parsippany, NJ 07054
Tel: 973-206-3434
Fax: 973-206-9378

ekatz@frontlinemed.com
www.neurologyreviews.com

NEUROLOGY REVIEWS is a clinical news publication with articles and timely department features that keep neurologists, primary care physicians and other healthcare professionals informed of the latest news affecting their practice. NEUROLOGY REVIEWS covers major medical conferences and monitors the peer review literature to report the latest research findings.

NIH / NINDS / OD

319

31 Center Drive
Bethesda, MD 20892
Tel: 301-451-4460
porterl@ninds.nih.gov

The National Institutes of Health is the nation's leading funder of biomedical research. Each of the NIH institutes and centers supports research activities that are relevant to their mission. The National Institute for Neurological Disorders and Stroke is the leading supporter for headache research. Mechanisms are available for investigators, mentors, and trainees to support their research and career development.

Pfizer, Inc.

212

235 East 42nd Street
New York, NY 10017
Tel: 212-733-2323
www.pfizer.com

At Pfizer, we apply science and our global resources to bring therapies to people that extend and significantly improve their lives. Every day, Pfizer colleagues work across developed and emerging markets to advance wellness, prevention, treatments and cures that challenge the most feared diseases of our time.

TheraSpecs Company

106

5025 North Central Avenue, Suite 586
Phoenix, AZ 85012
Tel: 602-456-6896
Fax: 602-218-4497
contact@theraspecs.com
www.theraspecs.com

TheraSpecs eyewear treat photophobia and light-triggered or -aggravated headaches and migraines. They are particularly effective for patients who are sensitive to fluorescent lighting or

sunlight. TheraSpecs frames are designed to maximize their lenses' therapeutic benefit with light-blocking coverage and flexible, lightweight designs that minimize pressure on the head and face. Visit booth #106 to learn more about TheraSpecs, pick up research references, and try a pair for yourself.

Tian Medical, LLC

314

244 East Roosevelt Road
Lombard, IL 60148
Tel: 630-426-9605
Fax: 312-635-0108
tianx@yahoo.com
www.tianmedical.com

Tx360® is specially designed for use in adults to deliver small amounts of fluid selected by a healthcare professional to the anatomical structures along nasal pathway. This device allows easy, safe, and instant access to the inner most hidden areas of the nasal pathway. In particular it allows professionals to easily and accurately reach the Sphenopalatine foramen which is essential when performing a Sphenopalatine ganglion nerve block. It is the only device in the world for this purpose.

USC Distance Learning Office of Ostrow School of Dentistry

207

925 W. 34th St. Rm. 127
Los Angeles, CA 90089
Tel: 213-821-5831
Ofpom@usc.edu
www.ofpom.usc.edu

The University of Southern California, Herman Ostrow School of Dentistry has launched a unique and innovative Online Masters Program in Orofacial Pain and Oral Medicine. The 37-month program is specifically designed for full time practicing dentists or academics from across the globe who would like to become experts in treating complex Orofacial Pain and Oral Medicine disorders. For more questions please contact ofpom@usc.edu or call 213-821-5831.

VR1, Inc.

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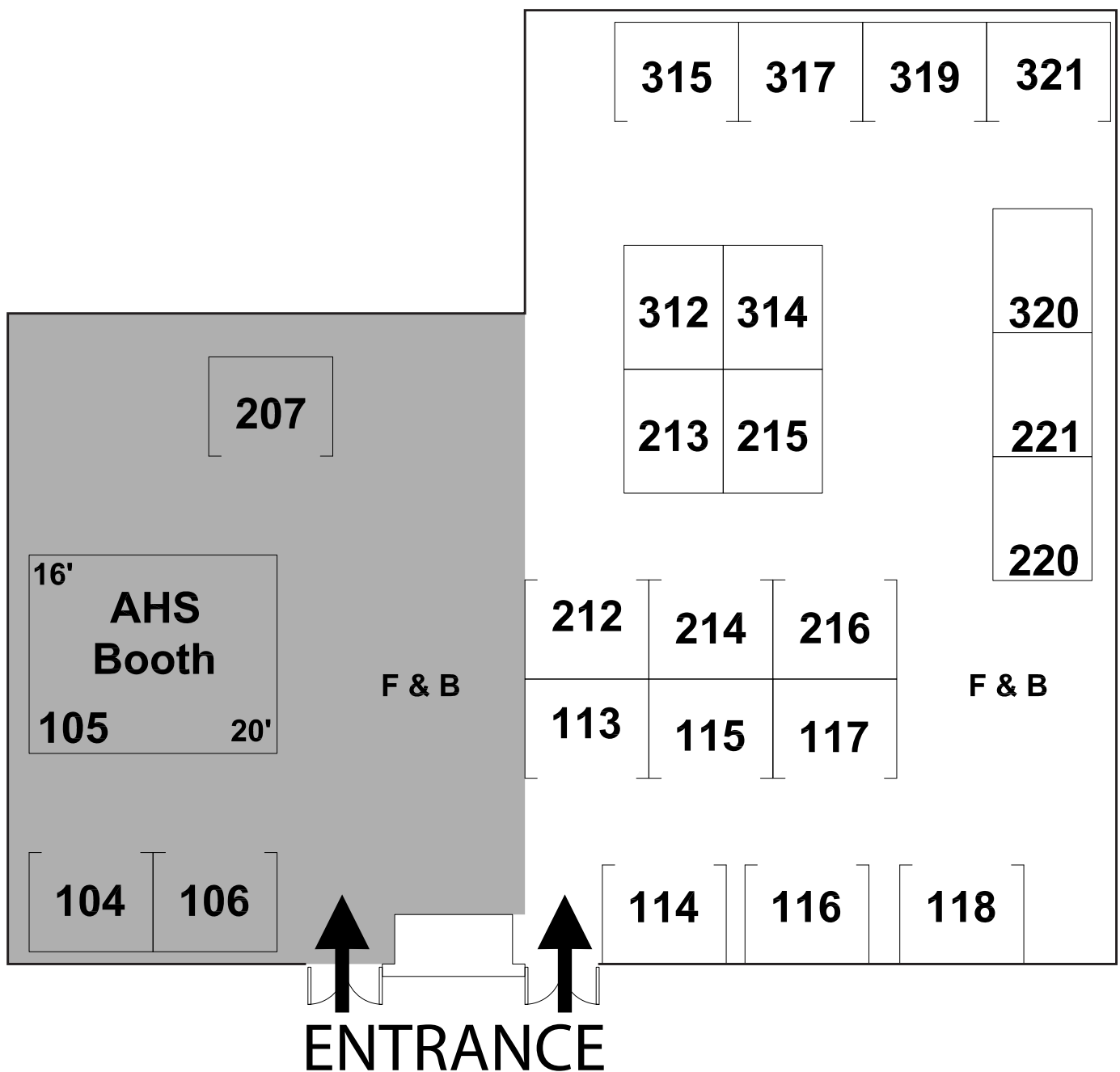
68 East 131st Street, Suite 307
New York, NY 10037
Tel: 212-368-2500
Fax: 212-320-0380
www.ausanil.com

Ausanil® was developed as a non-prescription homeopathic nasal spray treatment for the rapid relief from severe headaches including migraine, cluster and rebound headaches. It is affordable at less than 60c per dose. There are no drug-drug interactions and it may be used alongside other medications as an add-on treatment to provide rapid relief. When used in accordance with directions, Ausanil is safe to use several times daily. Ausanil is safe for patients with cardiac, gastric and hepatic disease.



EXHIBITOR floor plan

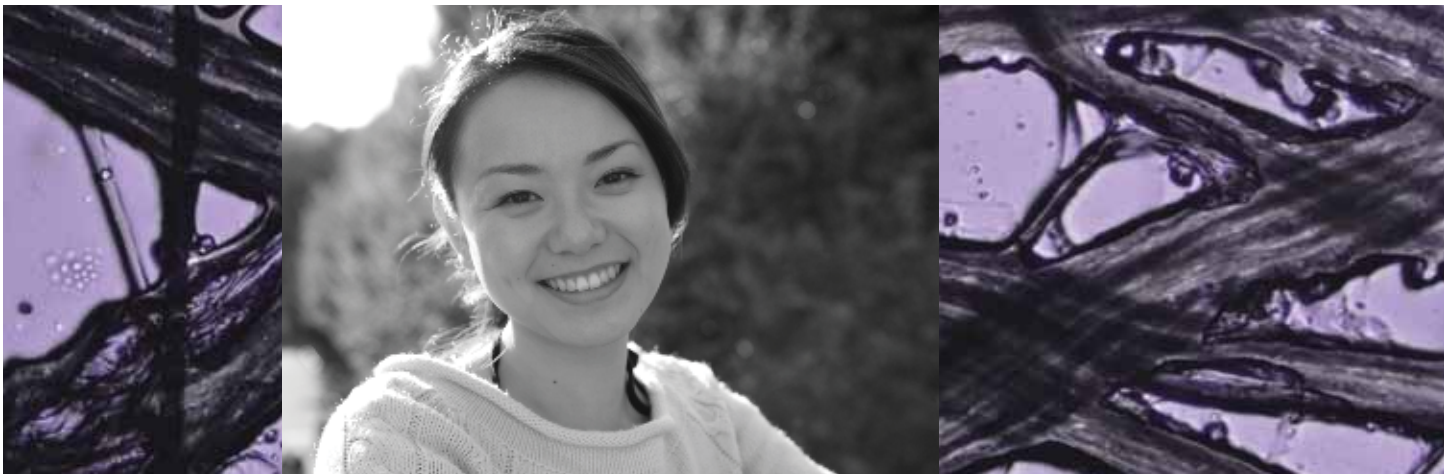
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Neuroscience

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Building on decades of deep biotechnology expertise, Amgen Neuroscience is an emerging strategic area for Amgen in its fight against serious illnesses with high unmet medical need. Diseases of the peripheral and central nervous systems have the potential to affect how people perceive, experience and respond to the world around them. Amgen Neuroscience has a growing portfolio of promising investigational medicines related to neurological disease areas that include migraine, chronic pain, neurodegeneration and psychiatry.

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INDUSTRY SUPPORTED EVENTS SATELLITE SYMPOSIA

FRIDAY, NOVEMBER 21, 2014

6:30 PM – 8:00 PM

PEACE PIPE

Dinner will be served during the activity.

**Patient-Centered Approaches to Treatment of Migraine:
Real-World Cases with Real-World Challenges**

6:30 pm – 6:45 pm	Welcome and Introductions <i>Roger K. Cady, MD</i>
6:45 pm – 7:05 pm	Current Practice Management in Migraine: When, Why and How? <i>Susan L. Hutchinson, MD</i>
7:05 pm - 7:25 pm	New and Emerging Therapeutic Strategies in Migraine <i>Roger K. Cady, MD</i>
7:25 pm - 7:45 pm	Patient-Centered Approaches to Migraine <i>Roger K. Cady, MD and Susan L. Hutchinson, MD</i>
7:45 pm - 8:00 pm	Summary, Conclusions, Questions and Answers <i>Roger K. Cady, MD</i>

This activity is underwritten by an educational grant from Teva Pharmaceuticals.

MediCom Worldwide, Inc. designates this live activity for a maximum of 1.50 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

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