

Program Committee Disclosures

PROGRAM CHAIR: DAWN C. BUSE, PHD, FAHS

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

PROGRAM CHAIR: RICHARD B. LIPTON, MD, FAHS

Dr. Richard Bit. Hochard B: Letron, MB, PARD Therapeutics (a company without commercial products); serves as consultant, advisory board member, or has received honoraria from: Alder, Allergan, Inc., Autonomic Technologies, Boston Scientific, Bristol Myers Squibb, Colucid, Dr. Reddy's, ElectroCore, Eil Lilly, Endo, eNeura Therapeutics, Informa, Labrys, Merck, Novartis, Teva, Vedanta.

FRANK ANDRASIK, PHD

Dr. Andrasik has nothing to disclose.

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DONNA GUTTERMAN, PHARMD

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ROBERT A. NICHOLSON, PHD, FAHS Dr. Nicholson has nothing to disclose.

TODD SMITHERMAN, PHD, FAHS

Dr. Smitherman is the recipient of a research grant from Merck and Co., Inc.

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Behavioral Seminar Course Developers

Dawn C. Buse, PhD, FAHS

Richard B. Lipton, MD, FAHS

Robert A. Nicholson, PhD, FAHS

Todd A. Smitherman, PhDplFAHSNicholson, PhD, FAHS

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Learning Objectives

At the conclusion of this presentation, participants will be better able to:

- Understand the science and art of communication
- Enhance motivation and adherence among patients being managed for migraine
- Be familiar with and able to apply empirically supported behavioral treatments in clinical practice
- Incorporate behavioral strategies into treatment plans
 that are tailored to the needs of their patients



	HCPs Can Provide	Behavioral Specialist Needed	Useful for All	Needed for Some
Education (triggers, healthy lifestyle)	✓		~	
Effective communication	✓		✓	
Adherence enhancement strategies	✓		~	
Relaxation training		✓	✓	
Stress Management		1	✓	
Cognitive Behavioral Therapy		1		✓
Dialectic Behavioral Therapy		✓		✓
Biofeedback		1		1



linicia	n = Coach P	atient = Player
Clinician	Uses experience and expertise to te patients the skills and tools to mana migraine Most effective when: Communicating what is important the players Enhancing their skills by address areas needing improvement	aach it to ing
Patient	 Puts the principles and tools provid the clinician "in play" on a daily basi migraine management Most effective when: Absorbing what the coach teache Practicing to build their skills Getting more instruction from the coach as needed 	ad by s for s

Why Is Effective Communication Essential for Migraine Management?





	AMCS-1
Assessed ictal impairment (%)	10
Assessed interictal impairment (%)	0
Addressed need for migraine prophylaxis (%)	50
Patient-physician agreement on frequency (%)	45
Patient-physician agreement on impairment (%)	49
Length of visit (minutes)	11

	AMCS-1	AMCS-2
Assessed ictal impairment (%)	10	90
Assessed interictal impairment (%)	0	45
Addressed need for migraine prophylaxis (%)	50	74
Patient-physician agreement on frequency (%)	45	56
Patient-physician agreement on impairment (%)	49	61
Length of visit (minutes)	11	9











Which of the following provider characteristics is most predictive of patient's trust?

- A. Where you attended medical school
- B. Your empathy towards the patient
- C. You and the patient having the same ethnicity
- D. Your years of experience

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Behavioral ARS Question 2

Migraine patients are often ambivalent about making needed changes to improve their condition.

A. True

B. False











Description	Principles to Address
Not motivated to change	Challenge disabling beliefs
Doesn't see the need or disagrees about the need	Set treatment expectations













Description	Principles to Address
Patient is actively making changes, but	Reinforce adaptive changes
Barriers could diminish motivation	Facilitate self-maintenance









Cognitive Influences in Migraine: Self-Efficacy

-	Patient's	belief	that:	
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- He/she can successfully engage in a course of action
 Action will produce a desired outcome
 - Individuals possess self-efficacy belief for various behaviors:
- Managing triggers
- Adhering to treatment regimens
- Coping with pain
- Limiting disability
- 1 Bandura. Psych Rev 1977;84:191-215.; 2 Schwarzer. Self-efficacy: Thought control of action. 1992.; 3 Bandura. Self-efficacy. Encyclopedia of human behavior. 1994.; 4 Bandura. Self-Efficacy in Changing Societies. 1995.

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Internal	Healthcare Professionals	Fate/Chance
"What can / do to manage these migraines?"	" <i>You</i> need to do something to manage these migraines"	"There is <i>nothing</i> <i>anyone</i> can do to manage these migraines"



Behavioral ARS Question 3

What type of locus of control is associated with improved headache outcomes?

- A. Internal
- B. External
- C. Chance
- D. Locus of control is unrelated to headache outcomes

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Adherence

 Definition: The extent to which a patient's behavior matches the agreedupon treatment regimen

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• Preferable to the term "compliance" which is less collaborative

Gillissen. J Physiol Pharmacol. 2007;58:205-222; Katic et al. Headache. 2010,50;117-129.











Putting it All Together Use Case...5 Things from the "Choosing Wisely Campaign

- 1. Don't perform neuroimaging in patients with stable headaches that meet criteria for migraine
- Don't perform computed tomography (CT) imaging for headache when magnetic resonance imaging (MRI) is available, except in emergency settings
- 3. Don't recommend surgical deactivation of migraine trigger points outside of a clinical trial
- Don't prescribe opioid or butalbital-containing medications as first-line treatment for recurrent headache disorders
- 5. Don't recommend prolonged or frequent use of overthe-counter (OTC) pain medications for headache

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Summary

- The Science and Art of Communication
- · Establishing empathy
- Collaborative care
- Communication strategies (AMCS)

Motivation and Adherence for Managing Migraine

Motivational interviewing and stages of change

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- Self-efficacy and locus of control
- Enhancing adherence



Part II

Overview: Part 2

- The biopsychosocial model of migraine
- · Behavioral interventions for migraine: the evidence
- · Behavioral interventions for migraine: the nuts and bolts
- Behavioral interventions for migraine for all healthcare professionals
- Behavioral interventions for migraine for the behavioral specialists
- How to identify appropriate patients for behavioral treatments for migraine

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- · Tips on how to make referrals
- Conclusions, Q &A



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	HCPs Can Provide	Behavioral Specialist Needed	Useful for All	Needed for Some
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Relaxation training		✓	✓	
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Cognitive Behavioral Therapy		1		✓
Dialectic Behavioral Therapy		✓		✓
Biofeedback		1		1



Brief Be for ALL	havioral Strategies Healthcare Professionals
	Education About Behavioral Factors in Migraine Triggers Exacerbating/maintaining factors Proper medication use and timing
Headache S Diaries for trig Lifestyle facto Sleep Medication us	Self-Monitoring Igers rs se (paper-pencil, web-based or Smartphone apps)
	Promote Healthy Lifestyle Behaviors Stress reduction/management Consistent, adequate sleep Regular exercise Smoking cessation Healthy diet Maintain a healthy weight or weight loss







Emerging Therapies

- Acceptance and Commitment Therapy reduces^{1,2}:
 - Headache-related disability
 - Emotional distress
 - Two small studies

1. Dindo et al. J Behav Res Ther 2012;50:537-43.; 2. Mo'tamedi et al. Headache 2012;52:1106-19.

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Identifying Patients Who Will Benefit from Specialized Behavioral Interventions

Consortium guideline recommendations

Identifying Patients Who Will Benefit from Specialized Behavioral Interventions

- · Consortium guideline recommendations
- · Additional factors to consider:
 - Headache-related disability
 - Headache Impact
 - Quality of life

Behavioral ARS Question 1

Among individuals with chronic migraine, about _____% experience little or no migraine-related disability, but approximately _____% have severe or very severe disability?

- A. 5, 20
- B. 10, 25
- C. 25, 33
- D. 40, 40

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Identifying Patients Who Will Benefit from Specialized Behavioral Interventions

- · Consortium guideline recommendations
- · Additional factors to consider:
 - Headache-related disability
 - Impact
 - Quality of life
 - Psychiatric comorbidities



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Behavioral ARS Question 2

I use psychiatric screening instruments in my clinical practice_____.

- A. Rarely, if ever
- B. On some patients
- C. On most patients
- D. On all/nearly all patients

PRIME-MD Screens most DSM-IV Axis I disorders	PHQ-9 Depression
GAD-7 Anxiety	GAD-4 Brief depression and anxiety screen
are available for use and distre www.phqscreeners.com for nuscripts, and versions in mu	ibution <u>free of charge</u> measures, manuals, validation Itiple languages







General Pharmacologic Strategies

Depression

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Roughly 2/3 respond to an SSRI/SNRI within 2 months¹ Consider a second SSRI/SNRI if failure with first Another failure—try drug with a different or dual mode of action

Anxiety

SSRIs are effective; require higher doses than for depression Benzodiazepines are a short-term option but contribute to: Addiction potentialAvoidant coping

1. Stahl SM. Stahl's Essential Psychopharmacology. 2008



Brief Behavioral Interventions: Stress and Anxiety

- · Educate patients about maladaptive consequences of avoidance
- · Recommend patient workbook or relaxation exercises - PMR, visual imagery, diaphragmatic breathing
- Available as smartphone apps, podcasts, CD
- · "Prescribe" activities for stress

management

- Pleasant activities
- Daily relaxation time
- Exercise/yoga

Refer for clinically significant anxiety, non-response to medication or concerns about addiction

Identifying Patients Who Will Benefit from Specialized Behavioral Interventions

- Consortium guideline recommendations
- Additional factors to consider:
 - Headache-related disability
 - Impact
 - Quality of life
 - Psychiatric comorbidities
 - Medication overuse or misuse

Opioid Use by Migraineurs

- Opioids are not:
 - Migraine-specific
 - Recommended by US Headache Consortium
- + \underline{Still} commonly used for migraine
- Frequent use related to negative outcomes
 - More frequent attacks
 - Greater headache-related disability
 - High rates of psychiatric comorbidities
 - More healthcare resource utilization



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Headache-Related Disability



Presence of Comorbid Psychiatric Disorders in Migraine With and Without MOH

Disorder	With MOH (%)	Without MOH (%)	Odds Ratio	P-value
All mood disorders	85	51	4.5	0.007
Major depressive episode	39	2	21.8	0.004
All anxiety disorders	83	54	3.5	0.02
Panic disorder	24	2	12.1	0.02
Generalized anxiety disorder	42	10	6.0	0.004
Social phobia	34	12	4.3	0.02
All substance disorders	44	15	7.6	0.001















Identifying Patients Who Will Benefit from Specialized Behavioral Interventions

- Consortium guideline recommendations
- Additional factors to consider:
 - Headache-related disability
 - Impact
 - Quality of life
 - Psychiatric comorbidity
 - Medication overuse or misuse
- Risk factors for progression



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Risk Factor	Treatment/ Intervention
Treatment patterns	Monitor and modify medication use, consider preventive other non-oral treatments, and behavioral interventions*
Attack frequency	Reduction/Prevention with pharmacologic and behavioral interventions
Obesity	Weight loss, Exercise, Behavioral Interventions
Stress	Behavioral interventions, Exercise, Lifestyle modification
Snoring	Diagnose and treat sleep apnea, Weight loss
Allodynia	Manage migraine attack frequency and treat migraine early
Depression	Assess, Treat/Refer with pharmacologic and behavioral therapies
Anxiety	Assess, Treat/Refer with pharmacologic and behavioral therapies







How to Make a Referral for Behavioral and Psychological Treatment

Terminology:

Biobehavioral training

Behavioral medicine

Stress management

Relaxation training

Reassure Patio	ents		
You are not "abar them—you will collaboration v mental health p	ndoning" vork in vith a rovider	You believe they have a biological condition	
You are not judgin a common resp to chronic p	g—this is conse ain	Treatment may help management of headache and improve quality of life	

Sponsor	Site address
American Headache Society membership and referral database	www.achenet.org
American Psychological Association	http://locator.apa.org
Association for Behavioral and Cognitive Therapies	www.abct.org
Association for Applied Psychophysiology and Biofeedback	http://www.aapb.org/providers.htm
Society for Behavioral Medicine	http://www.sbm.org