Emerging Challenges in Primary Care: 2017



Pseudobulbar Affect: A Call to Action

Avanir Pharmaceuticals Grant : Interim Outcome Report for Live Activities

December 18, 2017



Curriculum Overview

- Accredited Live Regional Symposia, Launch Date: May 6, 2017 through October 28, 2017
 - The live symposia was held in 4 cities with simulcast in 2 cities.
- ◆Non-Accredited "Clinical Highlights" The program content was reinforced to participants with a document containing key teaching points from the program and is distributed 1 week after each meeting.
- Enduring Symposium Webcast, Launch Date: November 6, 2017 End Date:
 November 5, 2018
 - http://naceonline.com/CME-Courses/course_info.php?course_id=924



Key Findings



Statistically significant improvement in all questions regarding the diagnosis and management of patients with Pseudobulbar Affect



Over 500% improvement in confidence in the ability to recognize Pseudobulbar Affect in their patient population that persisted 4 weeks after the activity



250% improvement in intent to consider a diagnosis of Pseudobulbar Affect in patients who report repeated episodes of laughing or crying 4 weeks after the activity.



Change of Practice Behavior

After 4 weeks, participants reported the following improved skills regarding the treatment of patients with Pseudobulbar Affect: 76% disease state awareness, 58% diagnostic evaluation, and 54% screening protocols.

4 Weeks Post N= 127



Discussion and Implications

- Moderate to very confident levels in the ability to ability to the ability to recognize Pseudobulbar Affect in their patient population rose from 15% to 97% after the activity.
- ❖ At 4 weeks, confidence levels remained at 76%, a significant improvement from baseline
- ❖ Data obtained from participants 4 weeks after the program demonstrated some slippage in learning from the post-test scores but these remained above baseline.
- Participants were more competent and knowledgeable in the recognition and treatment of patients with Pseudobulbar Affect 4 weeks after the activity.
- Learners demonstrated persistent gaps in the several areas including:
 - How and when to screen for Pseudobulbar Affect
 - Appropriate treatment strategies

The post-test scores, and intent to change practice patterns regarding the evaluation and management of Pseudobulbar Affect, signifies a clear gap in knowledge and an unmet need among primary care clinicians. It continues to be an important area for future educational programs.



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Commercial Support

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- Avanir
- Boehringer Ingelheim Pharmaceuticals, Inc.
- Grifols
- Lilly USA, LLC
- Sunovion Pharmaceuticals, Inc.
- Sanofi US
- Regeneron Pharmaceuticals





City	Date
Miami, FL	April 29, 2017
Baltimore, MD	May 6, 2017
St. Louis, MO	May 13, 2017
Birmingham, AL*	May 20, 2017
Atlanta, GA	June 3, 2017
Raleigh, NC*	June 10, 2017
Cleveland, OH	June 17, 2017
Tampa, FL	June 24, 2017
Anaheim, CA*	August 12, 2017
San Francisco, CA	August 19, 2017
Troy, MI*	August 26, 2017
Ft. Lauderdale, FL	September 9, 2017
Nashville, TN*	September 16, 2017
San Antonio, TX	September 23, 2017
Uniondale, NY	October 7, 2017
Denver, CO	October 14, 2017
Houston, TX	October 21, 2017
San Diego, CA*	October 28, 2017
*Simulcast and Live Conference Bolded cities are where the lecture was given	





Learning Objectives

- 1. Review the epidemiology and impact of Pseudobulbar Affect (PBA)
- 2. Recognize the importance of early recognition of PBA in primary care
- Describe diagnostic tools and criteria for objective diagnosis of PBA
- 4. Discuss therapeutic options for PBA



Levels of Evaluation

Consistent with the policies of the ACCME, NACE evaluates the effectiveness of all CME activities using a systematic process based on Moore's model. This outcome study reaches Level 5.

Level 1: Participation

Level 2: Satisfaction

Level 3: Declarative and Procedural Knowledge

Level 4: Competence

Level 5: Performance

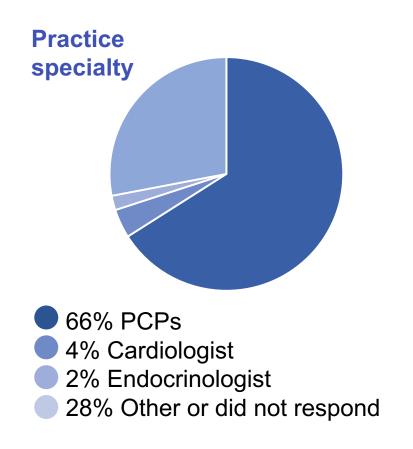
Level 6: Patient Health

Level 7: Community Health

Moore DE Jr, Green JS, Gallis HA. Achieving desired results and improved outcomes: integrating planning and assessment throughout learning activities. J Contin. Educ. Health Prof. 2009 Winter;29(1):1-15



Level 1 (Participation)













92%
Provide direct patient care



Level 2 (Satisfaction)



99% rated the activity as excellent



99% indicated the activity improved their knowledge



97% stated that they learned new and useful strategies for patient care



91% said they would implement new strategies that they learned



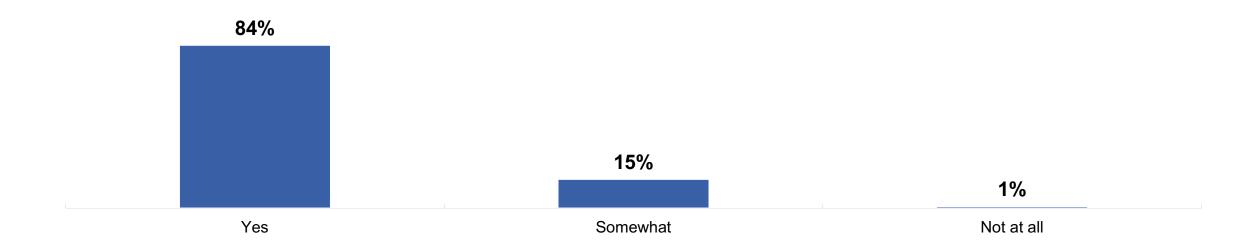
100% said the program was fair-balanced and unbiased



Attendee Learning Objectives Achievement

Upon completion of this activity, I can now:

- Review the epidemiology and impact of Pseudobulbar Affect (PBA)
- Recognize the importance of early recognition of PBA in primary care
- Describe diagnostic tools and criteria for objective diagnosis of PBA
- Discuss therapeutic options for PBA.



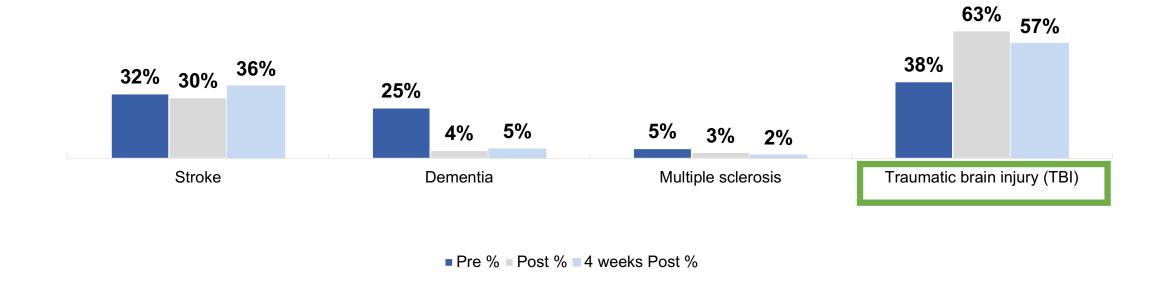
Sample Size: N = 753



Knowledge Assessment

In the PRISM registry study, the prevalence of Pseudobulbar Affect was highest in patients with which of the following conditions? (Learning Objective 1)

P Value: <0.001 - Significant



Post N = 617 4 weeks N = 127

Pre N = 575

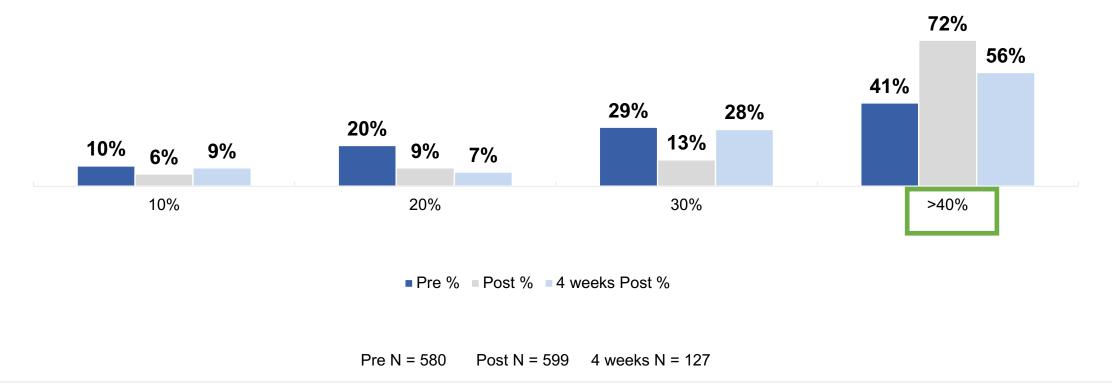


Knowledge Assessment

In a survey of patients with Pseudobulbar Affect, approximately how many reported being housebound by their symptoms?

(Learning Objective 1 and 2)

P Value: <0.001 – Significant



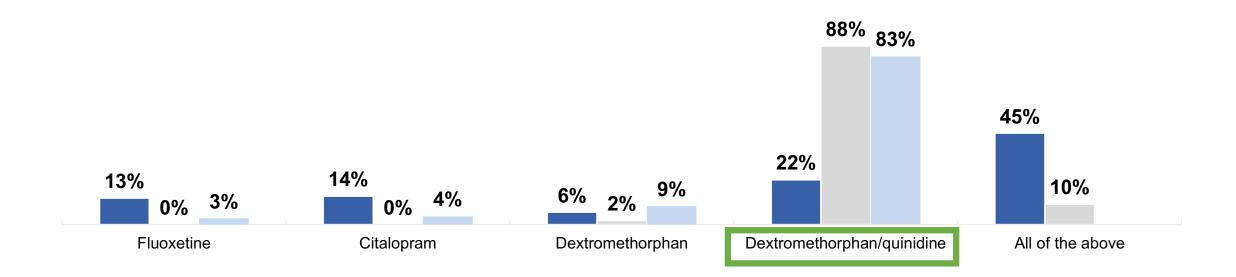


Knowledge Assessment

Which of the following agents is/are FDA-approved for the treatment of Pseudobulbar Affect?

(Learning Objective 4)

P Value: <0.001 – Significant



■ Pre % ■ Post % ■ 4 weeks Post %

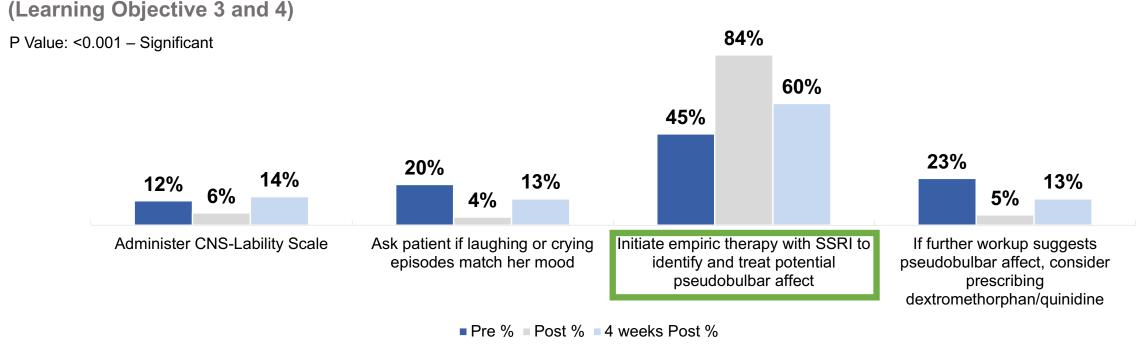
Pre N = 571 Post N = 635 4 weeks N = 127



Competence Assessment

A 63-year-old woman with a history of hypertension, dyslipidemia, and ischemic stroke presents complaining of excessive crying. She says the crying started after her stroke, about 6 months ago, and causes her to stay home most days. On questioning, she denies depressive symptoms and says "I don't know why I'm crying."

All of the following might be appropriate at this time, EXCEPT:



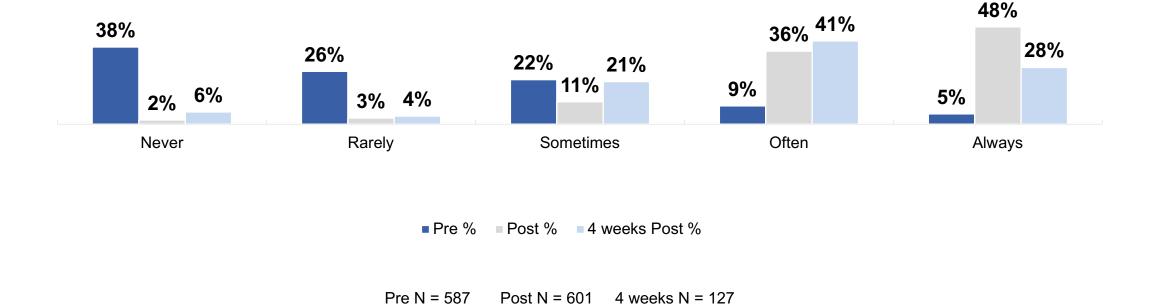
Pre N = 565 Post N = 641 4 weeks N = 127



Practice Assessment

How often do/will you consider a diagnosis of Pseudobulbar Affect in patients who report repeated episodes of laughing or crying?

P Value: <0.001 – Significant

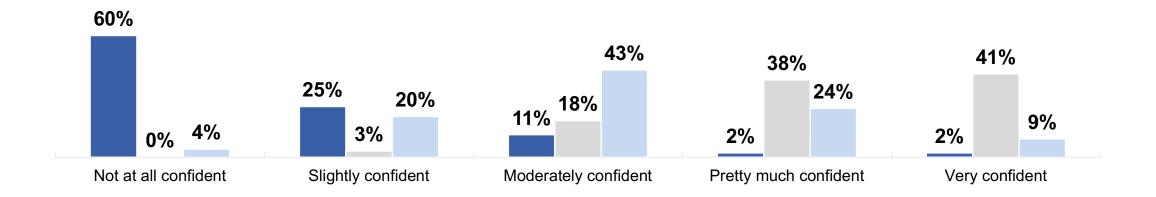




Confidence Assessment

Please rate your confidence in your ability to recognize Pseudobulbar Affect in your patient population:

P Value: <0.001 – Significant



Pre % = Post % = 4 weeks Post %

Pre N = 599 Post N = 622 4 weeks N = 127



Data Interpretation

Understand that Pseudobulbar Affect has the highest prevalence in patients with Traumatic brain injury

Are aware that >40% of patients with PBA report being housebound by their symptoms



Recognize
Dextromethorphan/quinidine as the only FDA approved medication for the treatment of PBA

Realize that empiric treatment with SSRI therapy for potential pseudobulbar affect is inappropriate, while treatment with FDA approved dextromethorphan/quinidine is indicated



Data Interpretation

Prior to the program, 36% of learners indicated that they would consider a diagnosis of Pseudobulbar Affect in patients with repeated episodes of laughing or crying but after the program this increased to 95%, a 260% increase.

Key Take-Home Points

Moderate to very confident levels in the ability to recognize Pseudobulbar affect increased dramatically from 15% to 97%, over 600% increase

92% of participants are engaged in direct patient care

91% said they would implement new strategies that they learned in their practice



Persistent Educational Gaps After 4 Weeks

The relationship between PBA and other neurologic conditions



Awareness of the extent that PBA impacts quality of life

Appropriate evaluation for patient's suspected of having PBA

Management strategies for PBA



New Specific Behaviors Reported at 4 weeks



I am screening more for head injury/TBI and using CNS-Lability Scale as part of routine screenings

I am including PBA in my differential diagnosis for stroke patients

I have started screening for PBA amongst National Guard service members with known or admitted TBI during annual health screenings

I feel more confident now in identifying, diagnosing and treating patients with PBA

I placed information in a NP tidbit binder and discussed PBA with those NPs not able to attend conference

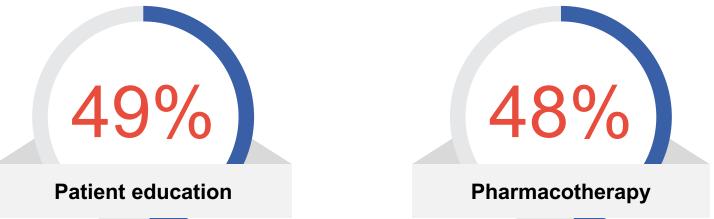




(4-week Post Assessment)

Please select the specific areas of skills, or practice behaviors, you have improved regarding the treatment of patients with Pseudobulbar Affect since this CME activity. (Select all that apply.)







(4-week Post Assessment)

What specific barriers have you encountered that may have prevented you from successfully implementing strategies for patients with Pseudobulbar Affect since this CME activity? (Select all that

apply)









