

Program Information

Introduction: Family Medicine and Primary Care practices are where Nurse Practitioners (NPs) have regular and consistent contact with patients and are, therefore, very likely to encounter patients who are experiencing complications from Chronic Obstructive Pulmonary Disease (COPD). It is imperative that NPs understand the disease process, initiate, advance and monitor appropriate treatment, according to updated guidelines to arrest progression and effectively communicate with patients suffering from COPD.

Educational Need: According to a needs analysis conducted for this program, clinicians:

- Lack understanding about the diagnosis of COPD, which impacts recognition and reduces the opportunity to slow disease progression.
- Are challenged in their ability to assess COPD severity and provide guideline-concordant treatment.
- Are not fully aware of the evolving recommendations for management of COPD during the COVID-19 era.

Learning Objectives:

- Describe the burden of disease associated with delayed diagnosis of COPD.
- Identify the indicators that must be present to establish a diagnosis of COPD.
- Differentiate between COPD exacerbations and respiratory infections such as COVID-19 symptoms in the urgent care setting.
- Summarize key updates to the ABCD assessment tool.
- List recommended treatment strategies when initiating pharmacologic therapy in patients with COPD.
- Select appropriate treatments for patients with COPD requiring follow-up therapy.
- **Format:** This on-demand, web-based enduring videocast and featured 3-D graphics by BioDigital. A clinical resource tool was developed and made available for healthcare providers to download with the activity and placed in the Tools and Resources section of the AANP website.

Knowledge and Competence

A 56-year-old woman with COPD who currently smokes presents to urgent care with complaints of shortness of breath, productive cough, myalgia, and anorexia. She has a fever of 102.9 °F. She has not received a COVID-19 vaccine and recently attended a birthday party where physical distancing guidance was not followed. Chest radiograph reveals hyperinflation and flattened diaphragms with some ground-glass opacities in left lower lobe. Which of her symptoms suggests a presumptive diagnosis of COVID-19 over COPD exacerbation? **1) Fever of 102.9 °F** 2) Hyperinflation 3) Productive cough 4) Shortness of breath



Which of the following is required to make a formal diagnosis of COPD? 1) Chest x-ray with findings of hyperinflation. 2) Sputum culture with negative gram stain. **3) Post-bronchodilator FEV1:FVC ratio <70%.** 4) Arterial blood gas after albuterol.



You are following up with a patient with COPD and need to assign a GOLD ABCD category. The patient's FEV1/FVC is 0.65. Their mMRC score is 2, and their CAT score is 11. In the past year, they have had 1 exacerbation that required hospitalization. Which would you no longer use to categorize COPD for your patient? 1) CAT score of 11 2) One exacerbation requiring hospitalization 3) mMRC score of 11 **4) FEV1/FVC of 0.65**



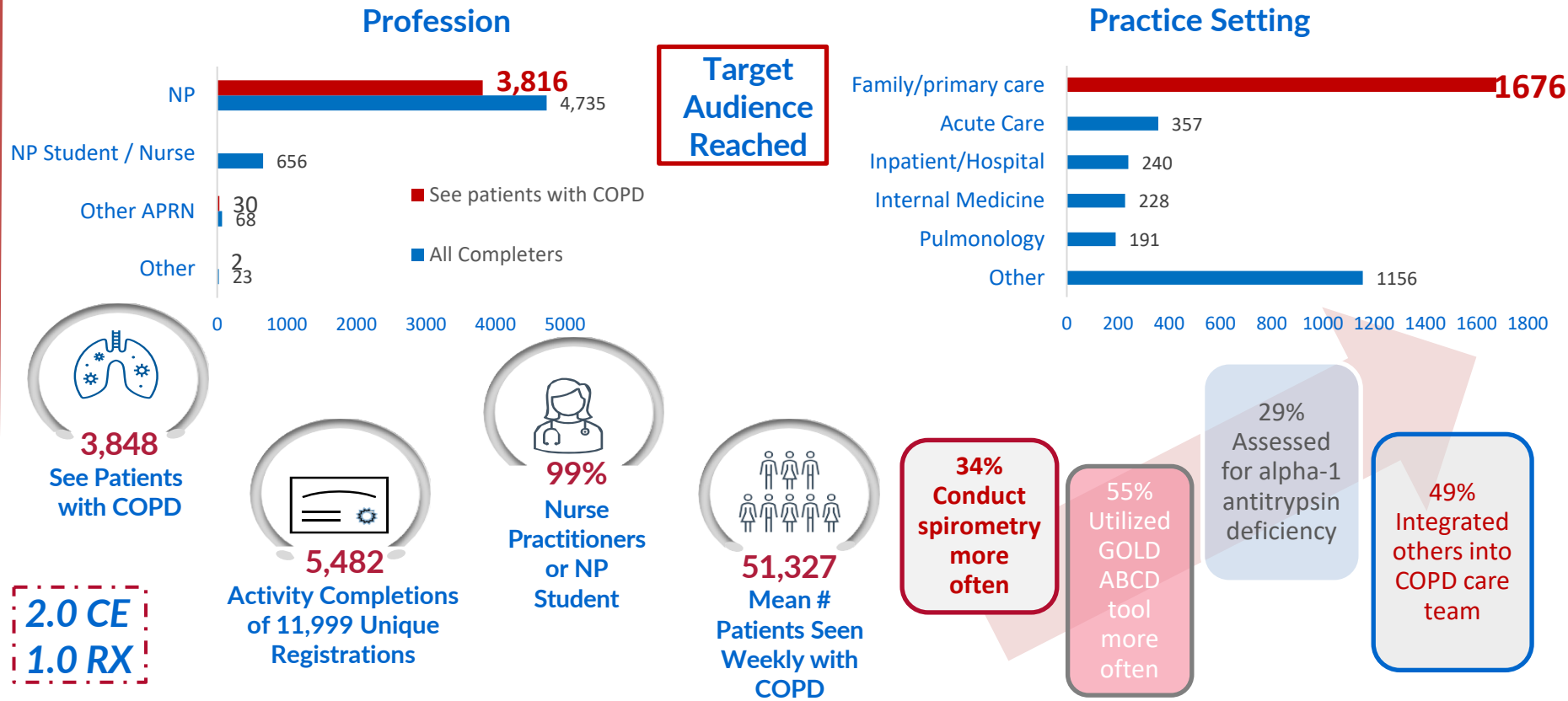
Supported by independent educational grants from Viatrix and AstraZeneca, PLP

CASE STUDIES IN COPD

Important Updates for Nurse Practitioners

September 3, 2021 - September 28, 2022

Demographics



Faculty

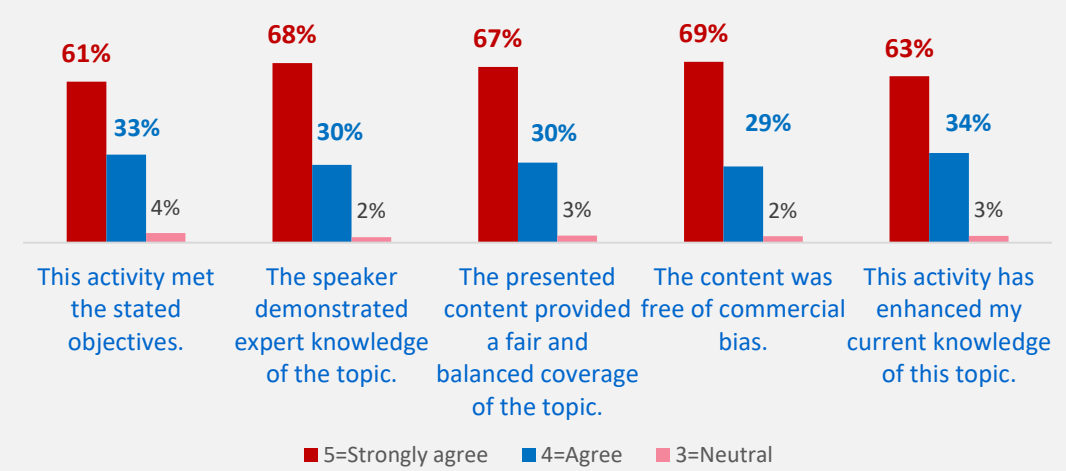
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Program Evaluation



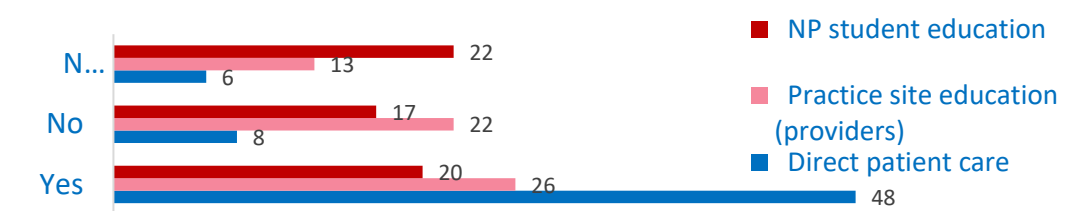
Ask the Expert: Upon conclusion of the activity, learners in the first 90-days post-launch were encouraged to pose questions about COPD. Answers and references were provided by course faculty then compiled as an additional resource available to previous and prospective learners via a downloadable PDF.

60-Day Follow-up n=63, 98.4% NP

Confidence Increased or Increased Significantly



Over the past 60 days, have you used the information from this activity for any of the following?



Data Collection, Measurement and Analysis: Changes in knowledge, competence, self-reported changes in confidence and practice habits, and identification of remaining gaps. A paired analysis of results of 7 pre/post results were aggregated in Excel including registrations (11,999), Completions (5,482) which were then filtered to include only learners who self-reported seeing patients with COPD each week (n=3,848). Demographics (pre) and evaluation (post) results used descriptive statistics tests to identify statistically significant differences pre to post: McNemar test for each of 7 multiple choice knowledge/case questions paired t-test for % correct knowledge/case questions, and the confidence rating scale questions ($P \leq 0.05$ indicates a statistically significant difference. Effect Size (ES), to indicate the size of the change), was also calculated as appropriate (Cohen's d : 0.20 = small, 0.50 = medium, 0.80 = large. Learners were asked to rate their level of confidence in the answer they selected (positive, fairly sure, or not sure). Thus, we conducted an analysis to identify learners who were positive and correct, positive and incorrect, etc. *Excel* data were brought into IBM *Statistics Package for the Social Sciences v27* for analysis.