

Pulmonology CME

Total AAPA Category 1 CME Credits: 9.75

An Update on Asthma Guidelines and Treatment

AAPA Category 1 CME Credits: 1

Description: The 2018 Global Initiative for Asthma (GINA) Guidelines are the most current and up-to-date asthma diagnosis and treatment guidelines available. This session outlines the GINA guidelines for the diagnosis of asthma, the correct staging of asthma, and the most recent recommendations for the treatment of asthma. It also highlights what is new in asthma diagnosis and treatment based on the GINA guidelines for 2018.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Recognize the current (2018) GINA Guidelines for the diagnosis and treatment of asthma
 - Describe the new guidelines including the latest treatment recommendations for asthma and acute exacerbations of asthma
 - Interpret in-office spirometry results and what those results mean for asthma management
 - Recognize an asthma exacerbation and how to manage an exacerbation based on the latest GINA
 - guidelines
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Evidence-Based Approach to Pulmonary Thromboembolism

AAPA Category 1 CME Credits: 1

Description: This session is designed to give an evidence-based approach to the diagnosis and management of PTE using landmark studies and current practicing changing trials. The bulk of the session revolves around clinical decision instruments to help guide PAs through the identification and workup of patients with suspected PTE to be better stewards of resources. By identifying low-risk patients, PAs can help coordinate outpatient management and treatment of PTE without unnecessary admissions. The session also includes a comprehensive algorithm to guide PAs through the pre-test probability, diagnostic study findings, risk stratification, and management of patients with PTE.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Discuss landmark and practice changing publications that have led to current recommendations in PTE management
 - Evaluate pre-test probability decision tools
 - Compare diagnostic modalities
 - Appraise current literature regarding treatment
 - Develop comprehensive decision algorithm
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Pulmonology CME

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Fast 15: CDC Flu Recommendations

AAPA Category 1 CME Credits: 0.5

Description: Each year, between 3,000 and 49,000 U.S. residents die from influenza and its complications. While there is a worldwide network of influenza surveillance programs, much of this information does not reach healthcare providers on the frontlines of caring for the public. Since the last influenza season, there have been changes to vaccine recommendations, and the available vaccine formulations have changed. This session aims to inform the primary care PA on the available sources of information to keep abreast of influenza activity in their community and in the United States. Furthermore, this session covers the current vaccine and treatment recommendations.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Review the epidemiology of seasonal influenza
 - Discuss how the annual vaccine strains are chosen
 - Recognize how, when, and which lab tests are appropriate to order
 - Explain treatment options for influenza
 - Recognize who should get the influenza vaccine and when
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Fast 15: Pediatric Asthma

AAPA Category 1 CME Credits: 0.5

Description: This session covers the 2007 asthma guidelines as they apply to children. Plus, highlights some of the newer asthma medications that can be used in children.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Name major and minor risk factors for the diagnosis of asthma
 - Recognize when to start daily controller medications and how to gauge response
 - Know when to consider use of injectable biologics in asthmatics
 - Describe pros and cons of using different inhalation devices in children
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Management of the Hospitalized Patient with Pneumonia

AAPA Category 1 CME Credits: 1

Description: Pneumonia is one of the most common diagnoses that PAs treat in the hospital setting. It is important to diagnose and treat pneumonia correctly in order to improve morbidity and mortality of our

Pulmonology CME

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patients. This session outlines the different types of pneumonia, as well as the most up-to-date IDSA guidelines on how to treat them. It also covers non invasive ventilation strategies which can help patients, and how they should be used.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Differentiate the following; community-acquired, hospital-acquired, ventilator-associated, and aspiration pneumonias
 - Review the diagnostic tools available for hospitalized patients with pneumonia
 - Identify when a patient should be transferred to the ICU
 - Utilize non-invasive ventilation strategies when appropriate
 - Discuss the appropriate treatment of each type of pneumonia
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Not Just Life Support: An Update on Respiratory Failure in 2019

AAPA Category 1 CME Credits: 1

Description: Over the past few years, much has been published in the literature regarding the treatment of respiratory failure with less invasive modalities than invasive mechanical ventilation. PAs in the ED, inpatient and ICU settings should be familiar with the evidence surrounding high flow nasal cannula, bilevel positive airway pressure (BiPAP), as well as the latest recommendations regarding airway management and mechanical ventilation to optimize their care of the patient with respiratory failure. PAs also play a pivotal role in goals of care conversations with patients and their surrogates. This case-based session covers the care of the whole patient with respiratory failure.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Initiate and manage high flow nasal cannula therapy for appropriate patients, including appropriate ARDS patients in effort to avoid intubation
 - Utilize bilevel positive airway pressure (BiPAP) for patients with acute respiratory failure, including a review of the evidence associated with ARDS and BiPAP
 - Participate in evidence-based airway management as a 'crew' member
 - Choose basic ventilator settings based on the evidence for best practice in ARDS
 - Prevent extubation failure by using high flow nasal cannula or bilevel positive airway pressure for appropriate patients
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Pulmonology CME

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Pediatric Respiratory Infections

AAPA Category 1 CME Credits: 1

Description: Children frequently present to PAs in different settings with respiratory complaints. It can be challenging to differentiate the different respiratory infections that young children can have. This session covers various respiratory pathologies in children with a review of diagnostic modalities and up to date treatment strategies.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Differentiate between varying presentations of respiratory infections
 - Describe the distinctive pathophysiology in respiratory disease
 - Explain appropriate therapeutic interventions and endpoints
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Principles of Mechanical Ventilation

AAPA Category 1 CME Credits: 0.75

Description: This session outlines mechanical ventilation with a focus on invasive mechanical ventilation, plus briefly reviews lung anatomy and physiology. It covers the principles of oxygenation/ventilation, definition of key pressures/terms, and a review of the most common modes of mechanical ventilation. Lung volumes and flow-volume loops is also highlighted.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Describe normal lung anatomy and physiology, including defining oxygenation and ventilation
 - Define the following terms; peak airway pressure, plateau pressure, transpulmonary pressure, and positive end expiratory pressure
 - Describe common modes of mechanical ventilation
 - Interpret a flow-volume loop
 - Briefly describe non-invasive mechanical ventilation
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Update: Management of Venous Thromboembolism

AAPA Category 1 CME Credits: 1

Description: Venous thromboembolism (VTE) is one of the major causes of morbidity and mortality in the U.S. Prompt recognition of a patient presenting with acute VTE is critical for good outcomes. The purpose of this session is to provide PAs and NPs with the tools needed to appropriately care for

Pulmonology CME

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patients presenting with VTE disease, according to the latest literature and recommendations. Participants should be familiar with the basic work-up for a patient presenting with both stable and unstable VTE. The laboratory studies and diagnostics required to appropriately work-up a patient presenting with acute venous thromboembolic disease will be identified. Pharmacologic and non-pharmacologic treatments is covered in the context of landmark studies and the most recent CHEST Guidelines. Direct oral anticoagulants is reviewed and compared to traditional therapies.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Identify the current statistics and epidemiology
 - Review the basic work-up for a patient presenting with acute venous thromboembolism
 - Examine the options for initial pharmacologic management of acute deep vein thrombosis and pulmonary embolism
 - Describe the indications for non-pharmacologic treatment
 - Compare and contrast the oral anticoagulants
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Updates in Lung Cancer Staging and Molecular Testing

AAPA Category 1 CME Credits: 1

Description: The 8th edition for staging of lung cancer was put into use in January 2018 with some important changes. Correct staging is critical to ensuring appropriate treatment and accurate prognosis. This lecture will provide the basics of the updated staging system and highlight the changes. It will also cover the emerging role of molecular testing during diagnosis and the current guidelines to help guide clinicians including when to biopsy and how to test for the common mutations.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Recognize the differences in the standard staging of small cell vs. non-small cell lung cancer
 - Describe the basics of the TNM staging system in lung cancer
 - Assign a stage based on clinical data, using the published tables
 - Recognize the common mutations found in non-small cell lung cancer
 - Discuss the emerging role of immune therapy in treatment of lung cancer
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Updates in Managing COPD

AAPA Category 1 CME Credits: 1

Description: COPD is the 3rd highest cause of death in the United States and affects more than 5% of the patient population. This session will use case studies to discuss how to correctly interpret

Pulmonology CME

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spirometry, review the signs and symptoms of COPD and utilized the GOLD Guidelines to make the correct diagnosis. COPD is a heterogeneous and complex disease and therefore it is important to learn how to develop an individualized treatment plan based on the GOLD Guidelines with proper selection of inhaled therapy. Inhaler selection and education play a very important part in managing patients with COPD. This session will also review updates in the literature and discuss the role of 'de-escalating' therapy in certain patient populations. The goal of this lecture is for PAs to have a better understanding of COPD diagnosis and management.

Educational Objectives

At the conclusion of this session, participants should be able to:

- Review spirometry and the staging of COPD per the GOLD Guidelines 2018
 - Recognize signs and symptoms of acute exacerbation of COPD, when to hospitalize, ways to prevent readmission, and implement appropriate inpatient and outpatient therapy options
 - Create the best treatment plan including de-escalation therapy options
 - Discuss the roles of pharmacological and non-pharmacological treatment
 - Discuss new literature on COPD management
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