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*Clinical and Translational Research*

Role of peripheral eosinophilia in acute exacerbation of chronic obstructive pulmonary disease

Wu CW *et al.* Peripheral eosinophilia in AECOPD

Chih-Wei Wu, Chou-Chin Lan, Po-Chun Hsieh, I-Shiang Tzeng, Yao-Kuang Wu

Abstract

BACKGROUND

Eosinophil counts are a promising guide to systemic steroid administration for chronic obstructive pulmonary disease (COPD).

AIM

To study the role of peripheral eosinophilia in hospitalized patients with acute exacerbation of COPD (AECOPD).

METHODS

Match Overview

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Sep 11, 2018 · 2. Eosinophils in Chronic Obstructive Pulmonary Disease. In asthma, another common airway disease, the utility of the eosinophil to identify a corticosteroid response has been established [], leading the way to the successful development of monoclonal antibodies to target severe eosinophilic asthma [13,14,15,16,17].The lack of an underlying mechanism for the role of eosinophils in asthma has ...

Cited by: 2

Author: James Camp, Jennifer L. Cane, Mona Baf...

Publish Year: 2018

## Sputum bacteriology in hospitalized patients with acute ...

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Sputum bacteriology in hospitalized patients with acute exacerbation of chronic obstructive pulmonary disease in Taiwan with an emphasis on Klebsiella pneumoniae and Pseudomonas aeruginosa. ... Severity of COPD was classified according to the 2003 Global Initiative for Chronic Obstructive Lung Disease guideline.

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## [Eosinophilic airway inflammation: role in asthma and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4707428>

Abstract. The **chronic lung diseases**, asthma and **chronic obstructive pulmonary disease (COPD)**, are common affecting over 500 million people worldwide and causing substantial morbidity and mortality. **Asthma** is typically associated with Th2-mediated **eosinophilic airway inflammation**, in contrast to neutrophilic inflammation observed commonly in COPD. However, there is increasing evidence that the **eosinophil** might play an important **role** ...

**Cited by:** 117**Author:** Leena George, Christopher E. Brightling**Publish Year:** 2016

## [Role of eosinophils in airway inflammation of chronic ...](#)

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**Role of eosinophils in airway inflammation of chronic obstructive pulmonary disease** Donald P Tashkin,<sup>1</sup> Michael E Wechsler<sup>2</sup> <sup>1</sup>Department of Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA; <sup>2</sup>Department of Medicine, National Jewish Health, Denver, CO, USA  
Abstract: COPD is a significant cause of morbidity and mortality. In some patients with COPD, **eosinophils** ...

**Cited by:** 11**Author:** Donald P Tashkin, Michael E Wechsler**Publish Year:** 2018





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## Peripheral Blood Eosinophil as a Biomarker in Outcomes of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6935282>

Dec 24, 2019 · The latest studies demonstrated that **eosinophilic inflammation** exists in both stable and **acute exacerbations** of COPD (AECOPD).<sup>4,5</sup> Mounting evidence suggests that **eosinophil levels** may be related to the **effects** of therapy and outcomes, even in the absence of asthma.<sup>6–9</sup> **Blood eosinophils** are usually used as a biomarker for response to inhaled steroids (ICS) and **exacerbation risk** ...

**Author:** Hong-Xia Wu, Kai-Quan Zhuo, De-Yu... **Publish Year:** 2019

## Eosinophilia and clinical outcome of chronic obstructive ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5647332>

Introduction. **Chronic obstructive pulmonary disease** (COPD) is an **obstructive** airway **disease** with both overlapping and distinctive features as with asthma <sup>1</sup>. Asthma is characterized by **eosinophilic** inflammation <sup>2</sup>, whereas COPD is predominantly associated with neutrophilic inflammation in the airways <sup>3</sup>. Growing evidence suggested that neither characteristic was immutably ingrained in either **disease**.

**Cited by:** 20 **Author:** Jeffery Ho, Wajia He, Matthew T. V. Chan...

**Publish Year:** 2017

## Blood Eosinophils to Direct Corticosteroid Treatment of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3400995>

Jul 01, 2012 · **Airway eosinophilia** is associated with **corticosteroid responsiveness** in **COPD**, and the **peripheral blood eosinophil count** is a sensitive and specific biomarker for **airway eosinophilia** during **COPD exacerbations**. What This Study Adds to the Field

**Cited by:** 401 **Author:** Mona Bafadhel, Susan McKenna, Sarah ...

**Publish Year:** 2012

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What is the role of eosinophils in COPD?

